Office of Surface Mining

Twenty-Second Annual Evaluation Summary Report

for the

Regulatory and Abandoned Mine Land Reclamation Programs

Administered by the Commonwealth

of

Kentucky

for

Evaluation Year 2004

(July 1, 2003, to June 30, 2004)

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TABLE OF CONTENTS

I.	Introduction
II.	Overview of the Kentucky Coal Mining Industry 3
III.	Overview of the Public Participation Opportunities in the Oversight Process and the State Program
IV.	Major Accomplishments/Issues/Innovations in the Kentucky Program
s '	A. Regulatory 7
	1. Blackwater
	1. AML Inventory System (AMLIS)
	C. Outstanding Issues
	1. Disposal of Underground Development Waste. 18 2. Bankruptcies

V.	Meas and	cess in Achieving the Purposes of SMCRA as sured by the Number of Observed Off-Site Impacts the Number of Acres Meeting the Performance adards at the Time of Bond Release	0
J	А. В.	Off-Site Impacts	
VI.	OSM	Assistance	3
VII.	Gene	eral Oversight Topic Reviews2	4
	A. B. C. D. E. G. H. J.	Topsoil Substitution	7 7 8 8 9 9 0 0

Appendix A: Tabular Summary of Core Data to Characterize the Program

Table 1 Coal Production
Table 2 Inspectable Units

Table 3 State Permitting Activity

Table 4 Off-Site Impacts

Table 5 Annual State Mining and Reclamation Results

Table 6 State and OSM Enforcement Activity

Table 6A Citizen Complaints

Table 6B State Inspection Activity

Table 7 State Bond Forfeiture Activity

Table 8 Kentucky Staffing

Table 9 Funds Granted to Kentucky by OSM

Table 10 Kentucky Inspection Activity

Table 11 Kentucky Enforcement Activity

Table 12 Lands Unsuitable Activity

Appendix B: State Comments on the Report

Appendix C: Permittees Issued Non-Compliances by DNR

(Listed by Descending Number of

Non-Compliances)

Appendix D: Permittees Issued Non-Compliances by DNR

(Listed Alphabetically)

Appendix E: 2003 Fill Information

Appendix F: MSHA-Class Impoundment Inventory

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I. Introduction

The Surface Mining Control and Reclamation Act of 1977 (SMCRA) created the Office of Surface Mining (OSM) to oversee the implementation of and provide Federal funding for State regulatory programs that have been approved by OSM as meeting the minimum standards specified by SMCRA. This report contains summary information regarding the approved Kentucky regulatory program and the effectiveness of the program in meeting the applicable purposes of SMCRA as specified in Section 102. This report covers the period of July 1, 2003, to June 30, 2004.

Detailed background information and comprehensive reports for the program elements evaluated during the Evaluation Year (EY) are available for review and copying at the OSM Lexington Field Office (LFO).

The format for this report is established by OSM Directive REG-8. REG-8 enables OSM and states to take innovative, results-oriented evaluation approaches tailored to individual State programs and stakeholder interests and needs. During the EY, OSM and the states develop state-specific oversight plans or performance agreements to identify specific program areas and evaluation methodologies directed toward end-results measurement.

The oversight process provides two national measurements of end results—the number and degree of off-site impacts resulting from mining and the number of acres meeting all reclamation requirements as documented by different phases of bond release. The revised process allows OSM to focus oversight on those aspects of the State program that both OSM and the State determine to be most important.

The following list of acronyms is used in this report:

A&E	Administration and Enforcement
ACSI	Appalachian Clean Streams Initiatives
AMD	Acid Mine Drainage
AML	Abandoned Mine Land
AMLIS	Abandoned Mine Land Inventory System
AMLR	Abandoned Mine Land Reclamation
ARCC	Appalachian Regional Coordinating Center
BLM	Bureau of Land Management
CO	Cessation Order
COE	U.S. Army Corps of Engineers
CY	Calendar Year

DAML Division of Abandoned Mine Lands

DMS Document Management System

DNR Department for Natural Resources

DSMRE Department for Surface Mining Reclamation

and Enforcement

EIS Environmental Impact Statement eMIR Electronic Mine Inspection Report

EPPC Environmental and Public Protection Cabinet

EY Evaluation Year

FOD Field Office Director

FY Fiscal Year

GIS Geographic Information System

HR Hydrologic Requirements

IHCO Imminent Harm to the Environment Cessation Order

KAR Kentucky Administrative Regulation

LFO Lexington Field Office LTT Long-Term Treatment

MSHA Mine Safety and Health Administration

NC Notice of Non-Compliance

OMSL Office of Mine Safety and Licensing

OSM Office of Surface Mining

PHC Probable Hydrologic Consequences

RA Regulatory Authority

RAM Reclamation Advisory Memorandum

RD Regional Director

SMCRA Surface Mining Control and Reclamation Act of

1977

SOAP Small Operator Assistance Program

TDN Ten-Day Notice

USFS United States Forest Service

WQ Water Quality

II. Overview of the Kentucky Coal Mining Industry

Kentucky is the third largest coal-producing State in the nation, with an annual production averaging over 160 million short tons during the 1990's. Kentucky was the nation's leading coal producer until 1988, holding that position for over a decade until the production from Wyoming and West Virginia exceeded that in Kentucky. Kentucky's coal production has steadily decreased from the late 1990's through the end of this EY. (See Table 1)

Nearly every type of coal mining and reclamation practice is found due to the differing coal bearing regions within the State and the availability of coal. Kentucky's coal reserve base, the fifth largest in the nation, consists entirely of bituminous coal. Two major coal provinces in Kentucky are separated by a large geologic uplift called the "Cincinnati Arch." The Eastern Kentucky Coalfield is part of the Appalachian Coal Province where underground, contour, and mountaintop mining occurs. The Western Kentucky Coalfield is part of the Interior Coal Province (Illinois Coal Basin) where area and underground mining occurs. The Jackson Purchase Lignite Coalfield underlies the eight most western counties in Kentucky. This potential resource has not been assessed, and no current lignite mining is occurring.

Since 1979, coal produced from underground mines has steadily increased over coal produced from surface mines. Underground mines account for approximately two-thirds of the acreage permitted in the State. The high percentage of acreage is due to the State requirement that the shadow area overlying the underground works must be permitted. However, most underground mines actually disturbed very little surface acreage. Of the total disturbed acreage from coal mining in Kentucky (245,577 acres), only 26,621 acres (or approximately ten percent) are attributed to underground mines. A review of underground mines in Kentucky indicates the following increases in size during the last four EY's as follows:

Underground Mines	EY	EY	EY	EY
Permitted Acreage	2001	2002	2003	2004
Less than 20 acres	1%	1%	1%	18
20-99 acres	6%	6%	5%	6%
100 acres or more	93% ·	93%	948	93%
Underground Mine Surface Disturbance	EY 2001	EY 2002	EY 2003	EY 2004
Acreage		4		
Less than 20 acres	70%	70%	69%	67%
20-99 acres	248	248	248	25%
100 acres or more	6%	68	7%	8 %

Surface mines and associated facilities (haul roads and preparation plants, etc.) account for approximately one-quarter of the acreage permitted in the State. A review of the permitted acreage for surface mines and associated facilities indicates a steady increase in size.

Permitted Acreage	EY 2001	EY 2002	EY 2003	EY 2004
Less than 20 acres	13%	13%	13%	13%
20-99 acres	24%	23%	22%	21%
100 acres or more	63%	64%	65%	66%

The number of surface mines that are greater than 100 acres has increased significantly over the last 11 evaluation periods in Kentucky. OSM's tenth annual report stated that 42 percent of the surface mines were larger than 100 acres. The fifteenth annual report reported that 55 percent of the surface mines were larger than 100 acres. As of June 30, 2004, the data shows that nearly two thirds of the surface mines are larger than 100 acres. The following table further categorizes the number of surface mines by size.

Permitted Acreage	Number of	Surface	Percent o	f Total	
	Mines		Surface Mines		
	EY 2003	EY 2004	EY 2003	EY 2004	
100-250	250	251	19	19	
250-500	252	247	19	19	
500-1,000	204	208	15	16	
>1,000	143	151	10	12	

III. Overview of the Public Participation Opportunities in the Oversight Process and the State Program

A team of LFO and Department for Natural Resources (DNR) personnel was formed to develop oversight procedures and special studies for EY 2004. The EY 2004 Performance Agreement was finalized and signed by DNR on September 2, 2003.

During the EY, LFO received no specific recommendations for oversight studies from its stakeholders. DNR continues to make blasting practices and the prevention of associated off-site impacts top priorities. During this EY, DNR has placed special emphasis on the prevention of blackwater discharges.

When SMCRA was enacted, it created many avenues for citizens' involvement. Thus, individual citizens have a statutory role in practically every phase of the surface mining program, from permit issuance to bond release. Since SMCRA was enacted in 1977, coalfield citizens have used those rights to help shape virtually all of the policies and programs that govern surface coal mining and reclamation in America.

During the EY, OSM held two public hearings in Kentucky. These are summarized as follows:

- On July 22, 2003, the Environmental Protection Agency, the U.S. Army Corps of Engineering (COE), the U.S. Fish and Wildlife Service, the West Virginia Department of Environmental Protection, and OSM held a public hearing on the draft programmatic Environmental Impact Statement (EIS) on mountaintop mining and valleyfills in Appalachia. The public hearing was held at the Hal Rogers Center, Hazard, Kentucky. There were approximately 250 attendees and 91 people testified at the hearing.
- On March 30, 2004, OSM held a public hearing regarding the excess spoil minimization/stream buffer zone proposed rule (published on January 7, 2004). The public hearing was held at the Hazard Community College, Hazard, Kentucky. Over 100 people attended and 31 testified at the hearing. OSM is analyzing the comments received.

IV. Major Accomplishments/Issues/Innovations in the Kentucky Program

In November 2003, Ernie Fletcher was elected Governor of Kentucky. Governor Fletcher reorganized the Executive Branch

of the Kentucky State government. By Executive Orders dated December 23, 2003, and July 9, 2004, the Governor eliminated the Natural Resources and Environmental Protection Cabinet and created the Environmental and Public Protection Cabinet (EPPC). The Executive Orders also eliminated the Department for Surface Mining Reclamation and Enforcement (DSMRE) and transferred the three Divisions within DSMRE into DNR. Also under the reorganization, the Department of Mines and Minerals was redesignated the Office of Mine Safety and Licensing (OMSL) and placed in DNR.

DNR is the Regulatory Authority (RA) responsible for the regulation of coal mining of Federal and non-Federal lands in Kentucky. DNR is headed by Commissioner Susan C. Bush. The three Division Directors are as follows: Division of Mine Permits, Larry Adams, Director; Division of Mine Reclamation and Enforcement, Keith B. Smith, Acting Director; Division of Abandoned Mine Lands (DAML), Steve Hohmann, Director. The Division of Mine Reclamation and Enforcement has five regional offices located in Madisonville, Middlesboro, Prestonsburg, Pikeville, and London.

The Fiscal Year (FY) 2004 Administration and Enforcement (A&E) Grant was in the amount of \$12,313,367 (Federal funds) and supports 318.87 positions. Of this total, \$1,026,605 is for Federal lands. OSM funds 83 positions in DAML with a grant of \$15,913,345 for FY 2004. The Small Operator Assistance Program (SOAP) was awarded grant funds of \$733,844 for FY 2004.

There are three major coal associations in Kentucky. They are the Kentucky Coal Association, the Western Kentucky Coal Association, and the Coal Operators and Associates, Inc.

Kentucky has two citizen organizations that are very active in coal mining issues. They are Kentuckians for the Commonwealth, Teri Blanton, Chairperson; and the Kentucky Resources Council, Inc., Thomas FitzGerald, Director. Lately, the Heartwood citizen's group has been active on issues concerning mining operations on U.S. Forest Service (USFS) property.

DNR is maintaining an effective regulatory program for permitting, inspection, and enforcement of surface coal mining and reclamation operations.

Kentucky experienced an extremely wet year. The heavy rainfall affected both the Regulatory and Abandoned Mine Lands (AML) programs. LFO received an above average number of AML

complaints during the EY. OSM investigated 245 AML emergency complaints during the EY.

The major accomplishments/innovations for the EY are as follows:

A. Regulatory

1. Blackwater

In January 2004, the Secretary of EPPC appointed representatives of the mining industry, environmental groups, and academia to a "Blackwater Task Force." The goal of the task force is to identify ways to minimize the number and severity of blackwater spills in Kentucky. The group continues to investigate best management practices to prevent or lessen the incidents of blackwater discharges. DNR provides technical support and advice to the task force. DNR's role is significant since they are the primary environmental regulator of the coal industry.

One of DNR's first tasks was to quantify the extent of blackwater spills. DNR identified all the violations they had issued for substandard discharge. These discharges were cited under the water quality (WQ), effluent limits, and hydrologic requirements (HR) sections of the regulations. A substandard discharge is not only blackwater, but can also be grey water, muddy or brown water, or acid mind drainage (AMD) (high iron and low pH). Next, DNR identified the cause of the substandard water discharges.

DNR's research found that in calendar year (CY) 2003, 167 notices of non-compliance (NC) were issued for WQ or HR violations. Seventeen of these NC's were significant enough to also warrant issuance of an imminent harm to the environment cessation order (IHCO). Of these 17 IHCO's, four were for blackwater, 12 were for muddy water, and one was for a slide into a stream. DNR determined that three of the four blackwater discharges were the result of operational error and one was the lack of sediment control. The muddy water discharges were the result of failure to provide adequate sediment control due to improper maintenance.

In the first three months of 2004, DNR issued 32 NC's of WQ, effluent limits, HR violations, and three IHCO's. Of the three IHCO's, two were for blackwater and one was for AMD. DNR determined that one of the blackwater discharge IHCO's was due

to inadequate maintenance of the effluent pond and the other was operational error of damaging the decant pipe during pond maintenance.

In response to its findings, DNR formalized internal procedures for the regional and central offices to follow to coordinate response activities with the EPPC Division of Water. All these procedures are aimed at identifying the source and cause of the substandard discharge, such that appropriate remediation measures can be implemented. Upon discovery or notification of a substandard discharge, the regional office will immediately notify the central office of the event. When at all possible, the DNR helicopter will be dispatched to assist in locating and videotaping the occurrence. The regional office personnel will immediately initiate an investigation with central office personnel and provide on-ground assistance as soon as possible. A list was prepared of central office personnel that would be available for immediate departure to assist in the discharge investigation.

2. Long-Term Treatment (LTT) of AMD

DNR maintains an inventory of known LTT permits with related coal bed and watershed information. The LTT policy revised the terminology of the original AMD policy requiring an expanded inventory of sites, including treatment of effluent for any chemical parameter. The inventory is routinely updated and is made available to the Division of Permits' review staff and the Division of Mine Reclamation and Enforcement's inspection staff. LFO, working jointly with DNR, has developed and maintains a basic Geographic Information System (GIS) map of the inventory. An AMD producing site may be removed from the active list if AMD production ceases after reclamation is completed. A site can only be removed from the active list if the water pH before treatment meets applicable effluent limits for 12 consecutive months. Such sites are still maintained on a historic AML list. During this EY, four sites were removed from the active list. Each site was inspected by LFO, which confirmed that each site was meeting effluent limits.

3. Remining

The Kentucky Remining Team is continuing its efforts of promoting remining by: (1) evaluating potential remining sites, (2) reducing or eliminating impediments to remining, and (3) creating new incentives. The team visited two minesites to evaluate their potential for remining.

4. OSM National Initiatives

DNR continues to take an active role in national OSM initiatives. DNR has a member on the National Blasting Work Group. Its membership provides important technical information on the mining practices and conditions in Kentucky. DNR and LFO have also been active participants with the Interstate Mining Compact Commission on the national remining and AMD initiatives. In addition, DNR is a cooperating agency on the EIS on mountaintop mining and valleyfills.

5. Reforestation

DNR is working jointly with OSM and the University of Kentucky to provide outreach and technology transfer regarding reforestation enhancement on surface mines. Both DNR and OSM are actively involved in the recently organized Appalachian Regional Reforestation Initiative. This initiative will transfer research findings and new technology as it develops to industry, landowners, other government agencies, and other interested parties for implementation on minesites. implementation of DNR's Reclamation Advisory Memorandum (RAM) #124 ("Reforestation Initiative" issued March 10, 1997) is a key element of the reforestation initiative in Kentucky. and OSM are in the process of designing a joint special study to review implementation of RAM #124. The study will include an evaluation of DNR and OSM field personnel attitudes and impressions concerning the methods and techniques of RAM #124 in an effort to assess the extent of any potential cultural barriers. During the process of this special study, the need for a general update of RAM #124 will be evaluated. Finally, this special study will install mechanisms for the tabulation of data concerning new permits issued since January 2004 that involves the planting of woody species as part of the postmining land use. A related special study concerning spoil compaction and its effect on post-mining land uses that require the establishment of woody species will also be conducted jointly by DNR and OSM. DNR and OSM are also encouraging reforestation efforts on AML reclamation projects.

6. Mine Mapping Initiative

Kentucky is making significant progress on its mine mapping initiative. General outlines of mined out areas, both underground and surface mines, are now available for viewing at the Kentucky Mine Mapping Initiative web site at http://minemaps.ky.gov. The site contains a tutorial on its use.

The web site allows users to view mined out areas throughout Kentucky and obtain maps of those mines. Users can also obtain information on these mines such as the name of the mine operator, the time of mining, the annual tonnage produced, and other statistics. Searches can be made by county, USGS topographic quad sheet, mine identification numbers, or geographic coordinates. Underground mine maps submitted to DNR since 2001 have been scanned, geo-referenced, and made accessible for downloading through this web site. So far, DNR added over 2,000 new mine maps to the web site and has over 2,000 more maps ready to be added to the site.

DNR (including OMSL) and the Revenue Cabinet are currently working under a grant from the Mine Safety and Health Administration (MSHA) to scan and geo-reference all mine maps currently on file with OMSL. As these maps are processed, they are being used to update the mine map web site and are being made available for download. As well as making the mine maps available for use on the web site, the scanned maps are saved to compact discs and are archived to provide an additional means for protecting the historic record of mining in Kentucky.

7. Slurry

DNR and MSHA engineers met during the EY to discuss impoundment issues. This is an ongoing activity. DNR and OSM also attended the annual MSHA impoundment seminar.

Following the October 11, 2000, slurry impoundment failure at Martin County Coal Corporation, OSM and DNR began a joint review of all MSHA-class impoundments in Kentucky. At that time, there were 118 impoundments in Kentucky. Presently, there are 119 (91 coal slurry and 28 freshwater ponds) MSHA-class impoundments in Kentucky (97 in eastern Kentucky and 22 in western Kentucky).

In EY 2002, OSM and DNR completed an initial field review (referred to as Phase I reviews) of all the permitted impoundments. The inspections included an on-the-ground inspection, a comprehensive review of the mine maps for nearby underground mining, review of the SMCRA-approved construction and design plans, and review of the MSHA files to determine whether the approved MSHA designs matched the approved SMCRA designs.

The Phase I reviews also found that 42 impoundments were considered either inactive or abandoned. Several of these had

been inactive since the 1980's and 1990's. DNR took enforcement action against some of these sites, requiring the impoundment to be reclaimed. In certain instances, the company submitted an abandonment plan, and in other cases, the company filed for administrative review of the enforcement action. DNR continues to review the sites and ongoing administrative review activities to determine future courses of action.

The Phase I reviews also identified 47 impoundments with underground mining within 100 feet of the approved pool levels. OSM and DNR agreed that these "high priority" impoundments should undergo a more intense review. These reviews (referred to as Phase II reviews), were conducted jointly by an OSM and DNR team. The team included an engineer from both OSM and DNR and the DNR permit reviewer familiar with the permitting documents. The joint reviews focused on determining current conditions at the impoundment and identifying any deficiencies in the design and/or construction that may need additional action by DNR. The Phase II reviews were started in EY 2003 and completed in EY 2004. Additional information concerning these reviews is provided in Section VII.

Also, as a part of what is referred to as Phase III, OSM continued its detailed technical review of selected slurry impoundments. The reviews are being conducted by the OSM Regional Impoundment Technical Team. Two impoundments were reviewed during EY 2003. The details of that review were reported in the EY 2003 Annual Report. During EY 2004, the team reviewed two more Kentucky impoundments. Additional information concerning the EY 2004 reviews is provided in Section VII.

8. Interactive Forum

On July 28-30, 2003, an Interactive Forum on "Geophysical Technologies for Detecting Underground Coal Mine Voids" was held in Lexington, Kentucky. The forum was sponsored by OSM, MSHA, and the University of Kentucky. The purpose of the forum was to evaluate the applicability and effectiveness of available geophysical technologies for detecting, locating, and delineating active and inactive underground coal mine workings and voids. Over 200 participants attended the forum that included State and Federal agencies, coal industry representatives, consultants, and educational institutions.

9. Blasting

DNR has been active in enhancing its inspection and enforcement of blasting.

- DNR (including OMSL) and OSM have been coordinating with and receiving training from the Department of Justice, Bureau of Alcohol, Tobacco, Firearms, and Explosives concerning the implementation in Kentucky of the Federal 2002 Safe Explosives Act.
- DNR continues its work to enhance and refine the current blasting certification training and testing program in Kentucky.
- DNR is participating, along with OSM, in a multistate review of blaster certification training, reciprocity, and testing.
- DNR (including OMSL) and OSM continue to conduct joint inspections of flyrock events.
- DNR, in most instances, imposes the maximum allowed civil penalties for violations involving off-site impacts related to flyrock events.
- DNR established a group of blasting inspectors in its regional offices during 2003. Blasting inspections, both compliance and citizen complaints, are conducted by these blasting inspectors.
- DNR provides training and technical support to its blasting inspectors. In addition, DNR and OSM attended the MSHA blasting safety training in Beckley, West Virginia, and the DNR-sponsored blasting conference in Louisville, Kentucky. (This was actually sponsored by the old Department of Mines and Minerals, which is now a division within DNR.)
- DNR and LFO conducted a joint special study on blasting records during the EY. (See Section VII.)
 - 10. The Approved State Program

During the EY, OSM published five final rules in the <u>Federal</u> Register on the approved Kentucky program. The final rules

approved one program amendment, removed four required amendments found in 30 CFR 917.16, and disapproved one program amendment. In a letter to DNR dated April 1, 2004, OSM resolved a 30 CFR 732 issue on the definition of "affected area."

A summary of the approved program amendments is as follows:

On July 17, 2003, OSM approved, with one exception, a proposed amendment to the Kentucky regulatory program. The Kentucky Administrative Regulations (KAR) were revised to include three definitions, 1) impounding structure, 2) impoundment, and 3) other treatment facilities. Also, the performance standards for sedimentation ponds, impoundments, coal processing waste dams, and impoundments were amended. Kentucky revised its program to be consistent with the corresponding Federal regulations.

The summary of the removal of four required amendments is as follows:

- On July 16, 2003, OSM removed a required amendment relating to the determination of premining uses of land not previously mined having to be properly managed. We found that the Kentucky program as it currently exists is no less effective than the Federal regulations, and therefore, authorized the removal of the required amendment found at 30 CFR 917.16(q).
 - On July 17, 2003, OSM removed a required amendment that required all C-class impoundments have a minimum static safety factor of 1.3 or meet specific design criteria no less effective than the standard. Kentucky amended its approved program, and OSM found that the change was no less effective than the Federal regulations.
 - On July 17, 2003, OSM removed a required amendment relating to public notification of permit applications. We found the Kentucky program is consistent with the corresponding Federal regulations.
 - On December 31, 2003, OSM removed a required amendment on service of conference officer reports pertaining to assessments of civil penalties. OSM found Kentucky's procedures consistent with the corresponding Federal regulations.

A summary of the program amendment disapproved by OSM is as follows:

• On May 13, 2004, OSM disapproved the transfer of \$3,840,000 from the Kentucky Bond Pool Fund to the General Fund Surplus Account. The use of the Bond Pool Fund to provide new financial guarantees was suspended until the \$3,840,000 was transferred back to the Bond Pool Fund or a plan for replacing these funds was submitted to and approved by OSM. Executive Order 2004-753 signed by Governor Fletcher on July 12, 2004, transferred \$3,840,000 from the General Fund Surplus Account to the Kentucky Bond Pool Fund. This action satisfactorily resolves OSM's concern and terminates our suspension of the use of the Bond Pool Fund, therefore resolving the issue.

11. Geographic Information System

DNR's Information Support Branch has developed a GIS database that can be accessed via the Internet. The database can be accessed from the DNR homepage at www.surfacemining.Ky.gov. The GIS has over 2,000 historical mylar overlays now available as geo-referenced digital images showing the extent of permit boundaries by topographic quadrangle. The system also provides links to copies of mine and reclamation plan maps for all permitting actions approved since December 2002. These maps are all geo-referenced for use in GIS applications. Other GIS data available includes water-sampling data, permit locations, permit boundaries, water monitoring wells, and mine shafts.

12. Technology Advancements

DNR continues its efforts on the electronic permitting initiative. Electronic workflow processing has been implemented throughout the Technical Review Section and is being utilized to monitor both electronic and hard copy submittals.

During the last EY, DNR greatly expanded the use of technology in its day-to-day operation. The Electronic Mine Inspection Report (eMIR) program utilizes a number of commercially available programs to create, process, and file the massive amounts of "paperwork" required in implementing Kentucky's inspection and enforcement program.

Using laptop computers on site, inspectors are able to electronically complete, sign, and print mine inspection reports.

After inspections are completed, the reports can then be routed to servers for review, approval, updating of the Surface Mining Information System, and filing. The system automatically takes care of mailings, distribution, tracking of time limits (in the event of enforcement actions), and reminders of needed follow-up.

During this EY, significant accomplishments in this process include:

- Electronic signatures are now being used, including batch signing of eMIR and associated documents.
- Enhancements to the system provide more consistency in form completion and information obtained.
- All regional offices have access to and are filing documents into the Document Management System (DMS).
- Four of the five regional offices are fully implementing this system. The remaining office will be included once personnel shortages are corrected.
- Over 28,000 inspections have been processed.
- Electronic copies have reduced the need for paper copies and mailings.
- Filing backlogs have been eliminated.
- Inspector's Violation Statements and photos can now be filed by downloading the server and processed along with the other inspection and enforcement documents.
 - Initial testing has begun on a program that will allow inspectors to download files from the server, thereby negating the need to maintain paper files in his vehicle.

The eMIR program, DMS, and workflow have become major components in the day-to-day inspection and enforcement operations. Over the next evaluation period, DMS will be expanding its technology into other critical areas of its program, including citizen's requests for inspection and pattern of violation review.

B. Abandoned Mine Land Reclamation (AMLR)

The Kentucky AMLR program is successful in achieving lasting and effective reclamation of mined lands. Construction grants continue to include high priority projects. Kentucky continues to consider high priority project selection criteria for AML emergency complaints referred to them by OSM. During the EY, Kentucky completed 37 high priority AML projects and submitted 54 new projects for authorization to proceed. Nine of the projects will provide safe domestic water supplies for 1,094 residences at an estimated cost of \$7.6 million.

The management of DAML continues to implement significant improvements in its program. DAML's continued support of the procedures implemented in EY 1996 and EY 1997 improved the internal control and support for change orders, as recommended in a previous audit of the State AMLR program.

1. AML Inventory System (AMLIS)

Kentucky fully supports the direct access to the AMLIS that allows DAML to electronically input AML problem data. DAML has been directly updating the AMLIS since the fall of 1995. DAML submitted a letter dated July 6, 2004, certifying that they have a system that ensures the accuracy of data they input into the AMLIS.

2. Bond Forfeiture Reclamation

DAML also administers the reclamation of Title V permits in bond forfeitures using forfeited reclamation bonds. DAML continues to improve its effort in reclaiming forfeited permits. During EY 2004, DAML issued 11 new group contracts containing 54 permits with a total of 249.5 acres. In addition, DAML continued reclamation activities on two group contracts containing eight permits with 66.5 acres from the previous EY. DAML completed reclamation on six group contracts containing 14 permits with 165.5 acres and six small purchase contracts consisting of six acres. At the end of EY 2004, eight group contracts containing 54 permits with 174 acres were ongoing. Information in Table 7 shows that 459.71 acres were forfeited and reclaimed on permanent program sites during the EY.

3. AML Emergency Program

During this EY, OSM investigated 245 emergency complaints reported from abandoned mines. OSM referred 146 complaints to the State when the site conditions did not meet Federal emergency criteria during the preliminary investigation. OSM evaluated 99 complaints for declaration as Federal emergency projects. Fifty-three of these complaints were declared Federal emergency projects. Five complaints are still under OSM review as of the writing of this report. The remaining 41 did not meet Federal emergency criteria and were referred to the State for consideration under its non-emergency AML program.

4. Appalachian Clean Streams Initiative (ACSI)

The ACSI was developed to encourage the cleanup of streams in Appalachia polluted by AMD. Kentucky continues to support this initiative.

Kentucky initiated two new ACSI projects during the EY, the Hecla Tipple and Slurry Project in Hopkins County and the Rough and Tough Landslides Project in Floyd County. Two projects discussed in previous reports were completed during the EY. The western Kentucky projects, Coiltown and East Diamond Tipple, were completed on November 18, 2003, and December 3, 2003, respectively. The Spewing Camp project is an ongoing effort to reclaim a 60-acre coal refuse pile in eastern Kentucky. It was initiated in November 2002.

The Hecla Tipple and Slurry Project in western Kentucky was initiated on March 9, 2004. It involves the reclamation of four areas totaling 69.7 acres of acidic, barren, coal slurry, coarse coal waste, abandoned mine pits, and one abandoned tipple structure. An additional 64.2 acres of the project area consists of potential earth borrow areas in locations that have been previously disturbed by mining. The project areas will primarily be graded to a configuration that allows for positive drainage, capped with an agricultural limestone barrier, and then covered with a minimum of two feet of soil material. Construction of this project will result in an improvement of the quality of water entering Clear Creek and the surrounding wetland areas.

The Rough and Tough Landslide Project in eastern Kentucky was initiated on April 5, 2004. Funding of this project includes \$228,000 of State bond forfeiture and settlement funds, along with ACSI and State AML grant funds. The project totals 33.1 acres at four areas in west central Floyd County. Construction involves excavating to rock, disposal and capping of toxic and highly acidic spoil/coal refuse, and demolition and removal of hazardous facilities. Portions of the mixed spoil/coal refuse material have burned as evidenced by the presence of "red dog." The project is designed to control the flow of surface and ground waters and to treat AMD discharges.

The project includes the removal of a partially buried, old steel storage tank. The tank is visible from a public road and the contents are easily accessible via an unlocked hatch and a ladder leading to the bottom. The tank contains approximately 600 gallons of sludge, 300 gallons of light oils, and 2,600 gallons of contaminated water. Test results of the materials in the tank revealed a hazardous level of lead. The tank will be removed using appropriate methods, pending approval and consultation with the Kentucky Division of Waste Management.

Overall, the Kentucky program is effectively administered. DNR maintains a strong commitment to protect the environment and citizens of the coalfields while regulating and encouraging a viable coal industry. OSM expects to maintain an excellent working relationship with DNR and looks forward to a continued joint commitment to improve the Kentucky AML program.

C. Outstanding Issues

1. Disposal of Underground Development Waste

It was discovered during a random oversight inspection that specific design requirements were not being required for permits involving disposal of underground development waste. The issue was determined to be programmatic. In a letter dated December 16, 1993, DNR advised LFO of its willingness to adopt changes to the regulation. The planned changes would be similar to those promulgated by Virginia. Kentucky projected that draft regulations would be available around April 1, 1994. During the past year, DNR noted that it might develop policy guidelines with respect to existing regulations relative to the disposal of underground mine waste in backfill areas in lieu of promulgating new regulations. However, no official correspondence has been received.

2. Bankruptcies

Bankruptcies in the coal industry in Kentucky required considerable attention during the EY. Five companies had ongoing bankruptcy cases during the EY. One of the five companies was able to emerge from Chapter 11 during the EY. Regulatory authorities and another company entered into a Term Sheet and Settlement Agreement that mediated various disputes among the principal parties surrounding both the Chapter 7 and Chapter 11 proceedings and provided for complete reclamation on all disturbed sites. A number of other issues relating to these cases has developed that required extensive participation and monitoring by both DNR and OSM in the bankruptcy proceedings to ensure that the permits are mined and reclaimed according to SMCRA and its supporting regulations.

3. Surety and Bonding

SMCRA requires that reclamation performance bonds be posted by operators prior to undertaking a surface coal mining operation. These performance bonds must be adequate to allow completion of reclamation by the State RA, should the mining company default. SMCRA allows mining companies to self-bond, obtain bonds from insurance carriers, or pay fees to alternative bonding systems, such as State bond pools.

Bond availability and increased costs to obtain bonds are major issues for the coal mining interests in Kentucky. The tightening of criteria for issuance of surety bonds to mining companies and the perceived reduction in the number of insurance companies willing to write reclamation bond coverage to mining companies are two of the causes.

4. Fill Construction Practices

Following several meetings to build consensus with the coal industry and environmental community, DNR developed RAM #135, issued September 10, 2002. The purpose of the RAM was to implement revised standards for the design and construction of durable rock fills. On December 11, 2002, DNR issued Directive Number 36 to revise and clarify existing inspection and enforcement policies on excess disposal fills. The study was delayed until EY 2005 due to the lack of fills constructed under the new policy.

During the EY, OSM initiated a regional effort with the goal of consistent application of steep slope valley fill requirements. The purpose of the regional initiative is to improve the quality and consistency of OSM's oversight inspection process while addressing the issues related to valley fills in a manner that provides proper deference to State primacy. In May 2004, OSM conducted a Federal inspector exchange program between Kentucky, West Virginia, and Virginia. The OSM inspectors were exposed to different State-approved programs, different mines, and different techniques of inspections. Three areas were emphasized: 1) construction of under drains 2) certifications, and 3) contemporaneous reclamation. This effort will assist in meeting OSM's Government Performance Results Act goal of minimizing off-site impacts.

5. Unauthorized Fills

The COE continues working with DNR and OSM to identify mining operations with unauthorized fills. No placement of fill material into waters of the U.S. can occur without prior authorization from the COE.

6. Flyrock Events

Eight flyrock events were identified during the EY compared to one event in the previous EY. For the damage caused by the flyrock, refer to the Off-Site Impacts section of this report on page 22. DNR aggressively investigates flyrock events and takes enforcement and permitting actions to minimize the potential for reoccurrences.

- V. Success in Achieving the Purposes of SMCRA as Measured by the Number of Observed Off-Site Impacts and the Number of Acres Meeting the Performance Standards at the Time of Bond Release
 - A. Off-Site Impacts

Kentucky's program for protecting the environment and public from off-site impacts was evaluated by collecting and analyzing known off-site damage resulting from the 1,992 surface and underground coal mine permits in Kentucky. DNR supplied LFO with Inspector's Violation Statements for NC's and Cessation Order's (CO) that contained off-site impacts. The Inspector's Violation Statements included all violations with off-site damage written for the period July 1, 2003, through June 30, 2004. LFO conducted the following:

- Developed an off-site damage database
- Screened the Inspector's Violation Statements for off-site impacts
- Verified and input the collected off-site impacts
- Analyzed the data

During the EY, DNR issued 721 NC's. These NC's cited 1,360 performance standards. The most frequently cited violation type was general permit provisions and then sedimentation control. A breakdown by performance standards based on the 50 State category types is presented below:

Percentage of Total Performance Standards Cited in EY 2004							
General Provision and/or Other	Sedi- ment	Backfilling & Grading, & Contempor- aneous Reclamation	Water Quality	Effluent Limits	Water Monitor- ing	Remain -ing 43 Cate- gories	
23.7	13.6	11.0	7.6	7.6	5.3	31.2	

Two-hundred seventeen CO's were issued by DNR (183 Failure-to-Abate CO's, 32 IHCO's, and two Illegal Mining CO's).

For this EY, Kentucky provided 243 NC's and 46 CO's that contained off-site impacts. The 289 enforcement actions resulted in 400 performance standard violations. OSM determined that there were 420 measurable off-site impacts for the 400 performance standard violations. The determination of off-site impacts was based on DNR's documentation and the OSM reviewer's interpretation of the enforcement language using any inspection reports associated with the enforcement action. The review of the Inspector's Violation Statements prepared for the penalty assessment was the primary resource document.

The 289 enforcement actions with off-site impacts involved 136 permits. This is approximately seven percent of the permits in Kentucky. The remaining 93 percent of the permits were free of off-site impacts.

Those NC's identified with off-site impacts were analyzed for the following criteria:

- type of incident
- resource affected
- degree of impact

Of the 400 performance standard violations with 420 measurable off-site impacts, approximately 48 percent was surface water. The next major type of off-site impact was encroachment into prohibited areas (20 percent). The third types of off-site impact were public roadway and other (18 percent).

From the data collected, the total impacts assessed from coal mining operations for the EY included 79.7 miles of streams, 495.1 acres of land, eight wells, and six homes. The findings

for off-site impacts indicate that approximately 32 percent of the measured incidents involved land and 48 percent involved water. Also, 87 percent of the incidents were minor, seven percent were major, and six percent were moderate impact. The majority of impacts were minor. However, as indicated, the largest impacts occurred within a few permits.

As noted earlier in this report, DNR placed a high priority on the prevention of blackwater discharges into the streams of Kentucky. The Cabinet Secretary created the Blackwater Task Force, and DNR implemented specific procedures for the regional offices to follow when a blackwater discharge is discovered.

In the first nine months of the EY, DNR issued 12 NC's for blackwater discharges. Three of these discharges were significant enough to warrant issuance of an IHCO. Several miles of Kentucky streams were impacted. Also impacted were the COE projects of Fishtrap Lake in Pike County and Dewey Lake in Floyd County. Also of significant impact to Fishtrap Lake was at least two blackwater spills from coal companies operating in Virginia. The discharges originated in Virginia and flowed downstream into Kentucky, impacting Fishtrap Lake.

Flyrock, which includes rock thrown through the air and rock that is forced off the blast site and rolls down the hill, is a major off-site concern in Kentucky. During the last EY, one flyrock incident occurred. During this EY, eight flyrock incidences occurred. Four of the flyrock cases resulted in property damage to residences, while the other four flyrock cases had rocks come within 10 to 250 feet of residences, but no physical damage occurred. Out of the eight flyrock cases, two minesites had two events each during the EY. Of these recurring flyrock events, each minesite had one flyrock that resulted in damage and one flyrock that came within 250 feet of residences. In one of these cases, children were playing in a swimming pool when the incident occurred.

When a flyrock incident occurs at a minesite, blasting is immediately ceased in the area pending investigation by OSM and DNR (including OMSL). The company is then required to develop a remedial blasting plan stating changes that will be made at the minesite to prevent future flyrock.

B. Bond Release

The goal of reclamation is to reclaim land mined by a surface coal mining operation to a stable condition, vegetated, non-

polluting, and of equal or greater value than the pre-mining condition. To achieve the goals of reclamation, a system of phased bond releases has been implemented in Kentucky. satisfy Phase I requirements in Kentucky, the reclaimed area must be backfilled, regraded, topsoiled, seeded, mulched, drainage-controlled, and a planting report submitted. Phase II requires the reclaimed areas have established revegetation in accordance with the approved reclamation plan and meet the standards for revegetation success, except for productivity standards. Also, the reclaimed area must not contribute suspended solids to stream flow or runoff outside the permit area. Phase III requires that the reclaimed area must successfully meet all surface coal mining and reclamation standards in accordance with the approved reclamation plan, that the reclaimed land must be capable of supporting the approved post-mining land use requirements, and that the applicable liability period must have expired.

In Table 5, Annual State Mining and Reclamation Results, Kentucky reported that it granted bond releases on 10,951.70 acres for Phase I reclamation, 3,735.6 acres for Phase II reclamation, and 11,122.4 acres for Phase III reclamation. OSM's review of these minesites through 81 joint inspections on Phase I and Phase III bond releases found that the State is meeting the requirements of its bond release program on permanent program permits.

VI. OSM Assistance

Table 9, Funds Granted to Kentucky by OSM, identified Federal funds awarded during FY 2004. The AML program received \$15,913,345, which is 100 percent of the total program cost. SOAP, which is also 100 percent Federally-funded, received \$733,844. The A&E grant, which funds the regulatory program, was for \$12,313,367. The regulatory program is 50 percent Federally-funded, except for the \$1,026,605 that Kentucky receives to administer the Federal Lands program. The Federal Lands program is 100 percent Federally-funded and is included in the A&E grant.

In January 2001, Bledsoe Coal Company (Bledsoe) applied for a lease on approximately 1,200 acres of coal owned by the USFS in Leslie County, Kentucky. If the lease is approved, mining will be conducted by underground operations extended from an existing Bledsoe operation near this area. The USFS also owns the surface land overlying the proposed lease area. Due to a dialogue that had been ongoing with various Federal agencies

about requirements of the National Environmental Policy Act, the Bureau of Land Management (BLM), the USFS, and OSM decided to participate in the development of an EIS on this proposed action. Since it owns both the surface and the minerals in the proposed lease area, the USFS agreed to be the responsible agency, with BLM and OSM serving as cooperating agencies. The Notice of Intent to develop the EIS was published on February 13, 2003, and the draft EIS was published October 10, 2003.

OSM is committed to provide adequate funding and technical assistance to the Kentucky program. Technical training courses are available to DNR upon request. Regional and LFO technical staff are also available to provide support to the Kentucky program.

VII. General Oversight Topic Reviews

During EY 2004, LFO completed 296 oversight-related inspections. Of this total, 180 were random sample inspections, and 41 were Phase III bond release inspections conducted jointly with DNR personnel. Forty-two field inspections resulted from special studies outlined in the EY 2004 Performance Agreement. The remaining 33 inspections were other oversight or State assistance inspections completed by LFO.

LFO issued 43 Ten-Day Notices (TDN) during the EY. These 43 TDN's contained 63 alleged violations. Forty-one of these TDN's were the result of citizen complaints. The other two were the result of a complete oversight inspection and a special study involving certification of hollow fills. At the end of the EY, nine TDN's were pending a decision on the appropriateness of DNR's response. One of the pending TDN's was from a previous EY. During the EY, 57 TDN's were satisfactorily resolved, with a determination made that DNR had either taken appropriate action or shown good cause for not taking action. Twenty-two of these resolved TDN's were from the previous EY.

During the EY, eight citizens requested that the Appalachian Regional Coordinating Center's (ARCC) Regional Director (RD) informally review the Field Office Director's (FOD) decision on their citizen complaint. The RD agreed with the FOD's decision in all eight reviews. DNR requested informal review of one FOD decision. This decision involved water damage to a retaining wall. The FOD disagreed with DNR's decision that the damage

was not related to mining. DNR requested an informal review and submitted additional information regarding their technical evaluation. Based on the information submitted by DNR, the RD reversed the FOD decision, concluding that DNR had shown good cause for not taking action.

LFO conducted 62 oversight inspections on State AMLR projects in accordance with the EY 2004 Performance Agreement as follows:

- 5 pre-authorization inspections
- 7 pre-construction inspections
- 33 active construction inspections
- 15 final construction inspections
 - 1 post-construction inspection
- 1 citizen complaint inspection concerning a State AML project

OSM identified eight concerns during inspections of five projects. All of the concerns were satisfactorily resolved with the State. All were site-specific and construction-oriented in nature, with no programmatic concerns identified.

Two special oversight studies were initiated this EY, but were not completed due to the complex nature of the studies and/or the workload of the staff involved. The studies include:

- Slurry Impoundments-Phase III (Regional Oversight Team), which is a continuing review.
- Underground Mine Permit Review-Outcrop Barriers, Subsidence Control Plans, and Portal Closure.

The following oversight studies were completed during the EY.

A. Topsoil Substitution

This was a joint DNR and LFO review of permitting and inspection procedures for replacing or supplementing topsoil with selected overburden material. The study was initiated in EY 2002 and completed in EY 2004.

The study found that while current permit review and enforcement procedures implemented by DNR have facilitated the success of using topsoil substitutes as a soiling medium for establishing and maintaining revegetated minesites, improvements could be made in both the technical and field review processes. Based on the team's permit reviews, field

inspections, and the findings generated by the study, OSM made the following recommendations:

- DNR permit reviewers should continue to use their discretion in determining any additional soil parameters they believe are necessary to demonstrate the suitability of proposed material as a soil substitute. This includes substitution plans proposing the use of durable rock (slake durability index of 95 or greater).
- According to 405 KAR 16:050 Sections 2(5) and (5) (a), a chemical analysis of the existing topsoil is required to make the demonstration that the topsoil substitute is equal to or more suitable than existing material. In half of the permits in this study, the chemical lab analysis for existing topsoil is absent. OSM recommends that DNR require the applicant to submit a chemical (laboratory) analysis of the existing topsoil.
- 405 KAR 16:050 Section 2(5) (b) requires a discussion from a qualified soil scientist or agronomist stating that the proposed substitute or supplement materials are equal to or more suitable for sustaining sufficient vegetation than the available topsoil; the resulting soil medium is the best available material to support sufficient vegetation; and the trials and tests were conducted using approved standard testing procedures. All the permits reviewed contained a statement, but did not contain the required discussion. OSM recommends that DNR require this discussion in future permitting actions.
- Though acidic and toxic material handling plans were usually not found in the topsoil substitute plan (Item 23 of the MPA-03), these plans were submitted in Item 29. OSM recommends that Item 23 include a reference to Item 29 in the application.
- In a few permits, the topsoil substitute plan was not a feasible plan or one easily enforced in the field. These permits often identified particular strata for the topsoil substitute. It would be operationally difficult for the permittee to salvage this strata and equally difficult for the inspector to determine if the strata had been salvaged. OSM recommends that during the permit review process, DNR emphasize attention to the achievability of the topsoil substitution plan.

- A plan to reduce compaction was not included in the topsoil substitution plan in most of the permits. 405 KAR 16:050 Section 4(2)(b) refers to the prevention of excessive compacting, and Section 4(1) details that land must be scarified before the re-distribution of (substitute) topsoil; however, if approved by DNR, scarification may occur after re-distribution. Most permits contain standard language that compaction will be kept to a minimum. Nevertheless, compaction is an important factor in success of reforestation. It is recommended that a detailed oversight study concerning compaction and intended post-mining land use be initiated.
- The approved topsoil substitution plan was not always being followed in the field. DNR should continue to place emphasis on the requirements of the plan and take appropriate enforcement actions when the plan is not being followed. This includes not only the topsoil substitute, but also identifying and salvaging existing topsoil (if present).

DNR responded to each of the recommendations with a plan of action that addresses the concerns with detailed permit application review and enforcement. DNR will emphasize the documentation required for the technical reviewer and field inspector, as well as communicating those needs to the coal industry.

B. Phase I Bond Release Inspections

This study included 40 Phase I bond-released minesites that were inspected as part of OSM's random oversight inspection program. OSM inspections on these minesites were to determine if all applicable bond release standards were met at the time the Phase I bond release was granted by Kentucky. OSM found that Kentucky is meeting its requirements for Phase I bond release on permanent program permits.

C. Phase III Bond Release Inspections

This study reviewed 41 Phase III bond release applications. OSM inspections on these Phase III bond release applications were conducted jointly with the Kentucky inspector and the bond release specialist. OSM found that Kentucky is meeting its requirements for Phase III bond release on permanent program permits.

D. Fill Inventory

OSM conducted 224 file reviews on permitting actions issued by the State in eastern Kentucky for CY 2003. The file review collected pertinent fill and watershed information on 316 proposed or existing excess spoil fills. See Appendix E for the review findings.

E. Random Sample

LFO's oversight format provides for a general assessment through random oversight inspections. In addition, it focuses on specific program areas jointly selected for special emphasis in oversight studies. During this EY, LFO conducted 180 random comprehensive inspections for a general assessment of Kentucky's program. The random samples were selected from the list of active and Phase I bond release permits on both surface and underground coal mining operations in Kentucky. The purpose of these inspections was to evaluate the degree of industry compliance with the approved State program.

OSM found that 141 of the 180 (78 percent) minesites in Kentucky were in full compliance with all performance standard categories. On the other 39 sites, 119 violations were observed. The performance standards most often in NC were hydrologic balance, backfilling and grading, and permit administration. OSM inspectors evaluated the seriousness of violations on random complete inspections. The data for the 119 violations shows that 62 percent of all the violations did not have an off-site impact, and 38 percent extend outside the permit area. In addition, 24 percent of the violations were minor, 58 percent had a moderate degree of impact, and 18 percent had a major degree of impact. For all 119 violations identified during complete inspections, the State took appropriate action in all cases.

F. Slurry Impoundments - Phase II

During EY 2004, the OSM and DNR review team completed the Phase II review of 47 "high priority" impoundments. These impoundments were identified in Phase I as having underground mining within 100 feet of the approved pool. The effort was initiated in EY 2003 with the completion of 23 reviews. Review of the remaining 24 impoundments was completed in EY 2004. The

review team updated information gathered during the Phase I inspections and monitored the progress of DNR-required permitting actions. DNR has required several of the permittees to submit breakthrough prevention plans and conduct drilling in the impoundment area to locate underground mine workings. The team found that permitting actions have been completed on some sites and continue on others. DNR conducts a thorough and independent analysis of these impoundment permitting actions. MSHA and DNR continue to exchange relevant information in impoundments within their jurisdiction.

G. Slurry Impoundments - Phase III

ARCC, under its Oversight Guidance Document, is reviewing the states' actions concerning the prevention of impoundment breakthroughs into underground mines. Under this review, OSM examines the states' procedures to evaluate breakthrough potential and their implementation of the procedures. At selected permits, the review includes a technical examination of breakthrough potential and an assessment of the states' actions to prevent breakthrough. During the EY, OSM completed two of these reviews in Kentucky.

The Lackey Branch Impoundment (Beech Fork Processing, Inc.) and the Big Branch Impoundment (Motts Branch Coal Company, Inc.) were selected because of their high breakthrough potential rating due to the close proximity of underground mines beneath and adjacent to the impoundment. OSM found that DNR thoroughly evaluated breakthrough potential and required the necessary breakthrough prevention measures.

H. Joint Blasting Review

This review was conducted by OSM, DNR technical staff, and DNR blasting inspectors. The review was conducted to ensure:

- 1) Consistent inspections by the blasting inspectors between regions,
- 2) Consistent regulatory interpretations between OSM and DNR, and.
- 3) Compliance with the blasting regulations. Blasting operations were inspected at 21 permits during the review. The review found that the blasting inspectors have a good understanding of the blasting regulations and practices. Further, because of the efforts of the blasting inspectors, the

review found a significant improvement in the completeness and accuracy of the blast records. The review did not identify any wide-spread problems. Some inconsistencies were identified, and the DNR technical staff is working with the blasting inspectors to address the issues.

I. Preparation Plants

LFO and DNR agreed in the EY 2004 Performance Agreement to conduct a follow-up evaluation of the EY 1997 joint special study on unreclaimed coal preparation plants that had been sitting idle for years. The purpose of that study was to evaluate idle preparation plants to determine if reclamation activities should be initiated on those permit areas. This follow-up study included a review of the original 25 permits evaluation in the EY 1997 study. The review evaluated the three findings from the EY 1997 report. The findings were as follows:

- The bonds were not adequate for 60 percent of the permits.
- The reclamation plans were not adequate.
- Three permits had actually caused off-site damage (AMD).

This study found that DNR has implemented bond review procedures for the deficiencies identified in the EY 1997 Preparation Plant Study. However, several permits still contain inadequate reclamation plans and remain an issue. DNR has upgraded bond amounts to ensure complete reclamation of idle preparation plant permits in case of forfeiture. The reclamation plans had not received the same attention as the bonding of EY 1997 study permits. Sixty-seven percent of the original permits that should have updated reclamation plans have not been updated. Since the EY 1997 study, the three permits that had AMD problems have been resolved.

In a letter dated July 22, 2004, the Division of Permits stated that they will initiate special mid-term reviews for those eight permits identified with inadequate reclamation plans. Reclamation plans for all remaining preparation plant facilities will be reviewed under the normal mid-term review process. The Division of Permits is developing specific review guidance in the form of a mid-term evaluation procedure document that will be distributed to the technical review staff.

J. Inspection Frequency

DNR reported Kentucky's inspection frequency at the end of the EY. The inspection frequency was based on 405 KAR 12:010, Section 3(5). This provision requires the State to conduct one complete and two partial inspections per calendar quarter for all minesites, except Phase I or Phase II bond release sites. Those sites in the bond release process or in temporary cessation require the State to conduct one complete inspection per quarter. DNR reported the following number of inspections.

Coal Mines and Facilities	Number of Complete Inspections	Number of Partial Inspections
Active	7,465	14,438
Inactive	344	178
Abandoned	. 49	64
TOTAL	7,858	14,680

Inspectable Unit Information

	Total	Number	of	Permits	Requiring	g Inspections	1,992
•	Total	Number	of	Permits	Meeting :	Frequency	1,964
•	Percer	ntage of	Ē P€	ermits Me	eeting Fr	equency	98.6

From the information provided, Kentucky's inspectors conducted 22,538 inspections and met inspection frequency on 98.6 percent of the inspectable units.

In EY 2003, OSM reported that DNR inspectors met frequency on 97 percent of the inspectable units. In EY 2004, DNR inspectors met frequency on 98.6 percent of the inspectable units.

K. Probable Hydrologic Consequences (PHC) Review

LFO and DNR completed a joint review of permits to determine whether the statement of PHC contained in the permit was based on adequate baseline data and reclamation plans. The team also looked for ways to improve the permit review process. The permits selected appeared to be long-term producers of AMD and were initially permitted early in the Kentucky program.

The review found that DNR was following its approved program as it relates to the level of data and planning needed to ensure that AMD production is prevented and minimized. The study found that Kentucky has statutes and regulations in place that appear

no less effective than Federal standards developed to prevent or minimize AMD. Kentucky also has draft policies and procedures in place that specify minimum levels of baseline data and reclamation plans that are required in permit applications. Two areas of concern were identified:

- (1) Geochemical analysis of coal and associated strata. All the permits reviewed contained chemical analysis of the acid-producing potential of the overburden associated with the coal seams being mined and the sulphur content of the coal seams themselves. While some of the data presented indicated that the coal seams might produce AMD, not all applications contained information in the PHC determination or the permit review documentation to show that AMD either would not be produced or that the problem could be remediated through reclamation.
- (2) Calculations associated with methods of operation and amount of coal extracted. If most of the coal was to be extracted, as is the case of longwall mining or secondary recovery, the acid-producing potential of the remaining coal was not always addressed. At one time, DNR allowed the applicant to ignore the acid-producing potential of the coal seam being mined, even when analysis showed that the seam was acid-producing.

Since 1990, DNR has been revising and improving its policies, guidance documents, and permit review methods to better access the potential for AMD and improve mine plans to eliminate or significantly minimize this problem. Changes made have included the development of an acid mine site inventory, improved training both within-house and from OSM, and adoption of the AMD/Long-term Treatment Policy in 1997. Changes in policy have specifically addressed the two major concerns identified in the review and discussed above. The acid-producing potential of the coal seam being mined and the impact of residual coal in high extraction mines are now addressed in all PHC determinations.

Copies of individual topic reviews may be requested in writing to the following address:

Office of Surface Mining Lexington Field Office 2675 Regency Road Lexington, Kentucky 40503-29

Appendix A

Tabular Summary of Core Data to Characterize the Program

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TABLE 1

	COAL PRO (Millions of		
Annual Evaluation Period	Surface Mines	Underground Mines	Total
Coal production ^A for	entire State:		
2001	. 51.723	76.061	127.784
2001	, 31.723	70.001	127./84
2002	49.656	75.593	125.249
2003	45.216	71.190	116.406
TOTAL	146.595	222.844	369.439

A Coal production as reported in this table is the gross tonnage which includes coal that is sold, used, or transferred as reported to OSM by each mining company on form OSM-1 line 8(a). Gross tonnage does not provide for a moisture reduction. OSM verifies tonnage reported through routine auditing of mining companies. This production may vary from that reported by states or other sources due to varying methods of determining and reporting coal production.

Coal mines to and related facilities	inact	e or carily ive	Imber Inac Phase bond r IP	and st	atus o	0, 2004 f perm	its				tted ac	•			
Coal mines to and related facilities STATE AND PRIVATE	Empor inact IP LAN 0 0	e or rarily ive PP DS F	Inac Phas bond r IP	tive se II elease PP	Aban							•			
Coal mines te and related facilities STATE AND PRIVATE	Empor inact IP LAN 0 0	rarily ive PP DS F	Phas bond r IP REGUL.	se II elease PP		doned			·			•			
and related facilities STATE AND PRIVATE	IP LAN 0 0 0	PP DS F	Phas bond r IP REGUL.	se II elease PP		doned						•			
facilities STATE AND PRIVATE	IP LAN 0 0 0	PP DS F 786	bond r IP EGUL	elease PP		doned									
STATE AND PRIVATE	0 0 0	DS F 786	IP EGUL.	PP	***		101	als	Insp.						
STATE AND PRIVATE	0 0 0	DS F 786	EGUL.		TD				Units ^D						
	0 0 0	786			IP	PP	IP	PP		IP	PP	Total			
Carefood main of	0 0			ATORY	Y AUTI	HORITY	: STA	TE							
1	0	728	0	53	. 1	9	. 1	850		0.42	4259	4259			
Underground mines			0	22	2	2	2	756		0.08	11588	11588			
Other facilities	. 0	353	0	1	0	1	0	355		. 0	485				
Subtotals		1867	0	76	3	<u> </u>	3	1961	0	0.5	16332	16332			
FEDERAL LANDS REGULATORY AUTHORITY: STATE															
Surface mines	0	7	- 0	. 0	. 0	0	0	7		0	14	. 14			
Underground mines	0	17	0	0	0	0	0	. 17		0	705	705			
Other facilities	0	4	0	0		0	0	4		0	8	8			
Subtotals	0	28	0	0	0	0	0	28	0	0	727	727			
ALL LANDS ^B															
Surface mines 0 793 0 53 1 9 1 857 0.42 4273 4273															
Underground mines 0 745 0 22 2 2 773 0.08 12293 12293															
Other facilities	0	357	0	1	0	1	0	359		0	493	493			
Totals	0	1895	0	76	3	12	3	1989	0	0.5	17059	17059			
Average number of permits per inspectable unit (excluding exploration sites)															
Average number of acres per inspectable unit (excluding exploration sites) 858															
Number of exploration pe	rmits	on stat	e and pr	ivate la	nds:				On Fed	eral lan	ds ^C :	-			
Number of exploration no * includes federal lands	tices	on Stat	e and pr	ivate la	nds:	340			On Fed	eral lan	ds ^C :				
IP: Initial regulatory program	cites														
PP: Permanent regulatory program		e c													
A When a unit is located on mo B Numbers of units may not equ in more than one of the preced C Includes only exploration acti	re than ual the s	one type sum of the	he three pi	eceding (categories	because a	single ins	pectable	unit may	include la					
to a federal lands program. E. Inspectable units includes mu some state programs.	xcludes	explora	tion regul	ated by th	e Bureau	of Land M	lanageme	nt.							

T-2

TABLE 3

STATE PERMITTING ACTIVITY As of June 30, 2004 Surface Underground Other Type of Mines Mines **Facilities** Totals Application App. App. App. App. Acres Rec. Issued Acres Rec. Issued Rec. Issued Acres Rec. Issued Acres New Permits 87 66 15,421 28 18 17,292 9 2 102 124 32,815 86 Renewals 74 54 41,462 195 109 146,204 141 53 4,516 410 216 192,182 Transfers, sales, and 42 31 49 36 15 25 88 110 assignments of permit rights Small operator 32 24 3 25 35 assistance Exploration permits ** Exploration notices^B 340 340 Revisions (exclusive 30 10 2 42 of incidental boundary revisions) Incidental boundary 174 6,474 133 26,945 29 254 336 33,673 revisions Amendments 52 6,488 48 23,396 9 303 109 30,187 Major revisions 18 1,466 19 4,731 6,197

227 **Exploration notices do not distinguish type of mining.

Totals

OPTIONAL - Number of mid-term permit reviews completed that are not reported as revisions.

71,311

272

5,175

802

389

218,568

165

1,311

295,054

^A Includes only the number of acres of proposed surface disturbance.

State approval not required. Involves removal of less than 250 tons of coal and does not affect lands designated unsuitable for mining.

8/31/2004

TABLE 4

						OFF-SITE IMPACTS	E IMPA	CTS	ver ke					
DE	DEGREE				RES	ESOURCES AFFECTED	S AFFE	CLED						
	OF		People			Land			Water		~ .1	Structures		Total
IM	IMPACT	minor	moderate	major	minor	moderate	major	minor	moderate	major	minor	moderate	major	
	Blasting						14						2	16
TYPE	Land Stability				45	4	1				3			53
OF	Hydrology				6	4		154	8	3	7			187
IMPACT	Encroachment				73	7	5							85
	Other			-	62	3	2	11			1			79
-	Total	0	0	0	189	18	23	165	8	3	11	1	2	420
Total numbe	otal number of inspectable units:	units:		1,992										
Inspectable	nspectable units free of off-site impacts:	site impact	S:	1,856					egant ve helm				•	

ANNUAL STATE MINING AND RECLAMATION RESULTS

Bond Release Phase	Applicable Performance Standard	Acreage Released During This Evaluation Period
Phase I	Approximate original contour restoredTopsoil or approved alternative replaced	10,951.70
Phase II	Surface stabilityEstablishment of vegetation	3,735.60
Phase III	 Post-mining land use/productivity restored Successful permanent vegetation Groundwater recharge, quality, and quantity restored Surface water quality and quantity restored 	11,122.40
	Bonded Acreage Status ^A	Acres
(June 30, 2003) ^B Total number of b Number of acres b considered remining Number of acres v	onded acres at end of last review period onded acres during this evaluation year. onded during this evaluation year that are ng, if available. where bond was forfeited during this evaluation nis acreage on Table 7).	1,689,300.00 346,848.80 N/A 284.00

A Bonded acreage is considered to approximate and represent the number of acres disturbed by surface coal mining and reclamation operations.

Bonded acres in this category are those that have not received a Phase III or other final bond release (state maintains jurisdiction).

TABLE 6

STATE AND OSM ENFORCEMENT ACTIVITY

	Actions Tal	ken by State	Actions Tak	en by OSM
Type of Enforcement	Number of Actions	Number of Violations	Number of Actions	Number of Violations
Notice of violation issued	721	1,360	0	0
Imminent harm cessation order issued	32	42	0	0
Failure-to-abate cessation order issued	183	396	0	0
Show-cause order issued for pattern of violations	1			
Permit suspended ^A	1			
Permit revoked	1			
Individual civil penalty assessed	7			-
Criminal penalty requested	0			
Criminal penalty assessed	0			
Injunction requested	7			
Injunction obtained	9			
Settlement agreement approved in lieu of further enforcement action	130			

^A Average duration of permit suspension: 8.75 months

TABLE 6A

CITIZEN	N COMPLAINTS	
Number of Complaints	State	OSM
Actions pending as of June 30, 2003	119	23
Complaints received in EY 2004	714	41
Complaints referred to state		41
Complaints investigated	670	55
Responses provided to complainant	572	55
Actions pending as of June 30, 2004	163	9

TABLE 6B

STATE INSPECTION ACTIVITY

	Numb	per of	Perc	ent of		Inspectab	le units fo	r
,	inspec	ctions	required i	nspections	W	hich State	met requi	red
Type of	condi	ıcted	condi	icted ^A		inspection	ı frequenc	y .
inspectable unit	Complete	Partial	Complete	Partial	Con	iplete .		\11
	inspections	inspections	inspections	inspections	inspe	ections ·	inspe	ections
COAL MINES							·	
AND					Number	%	Number	%:
FACILITIES							·	
Active	7,465	14,438	99.83%	99.97%	1,882	99.31%	1,878	99.10%
Inactive	344	178	99.71%		75	98.68%	75	98.68%
Abandoned	49	64	98.00%		11	91.67%	- 11	91.67%
TOTALS	7,858	14,680	99.81%	99.97%	1,968	. 99.24%	1,964	99.04%
	1,484	688						
Exploration permits ^B								

^A Calculated on a site-specific basis. Excess complete inspections are considered partial inspections. For each site, any inspections in excess of the total number required by the approved program are not included.

^B Includes all valid or unreclaimed notices and permits. No inspection frequency data are provided since SMCRA does not establish a minimum numerical inspection frequency for coal exploration activities.

STATE BOND FORFEITURE ACTIVITY

(Permanent Program Permits)

Bond Forfeiture Reclamation Activity by SRA	Number of Sites	Acres
Sites with bonds forfeited and collected that were unreclaimed as of June 30, 2003 (end of previous evaluation year) ^A	89	2,042.87
Sites with bonds forfeited and collected during Evaluation Year 2004 (current year)	10	284.00
Sites with bonds forfeited and collected that were re-permitted during Evaluation Year 2004 (current year)	- 0	0.00
Sites with bonds forfeited and collected that were reclaimed during Evaluation Year 2004 (current year)	11	459.71
Sites with bonds forfeited and collected that were unreclaimed as of June 30, 2004 (end of current year) ^A	88*	1,867.16
Sites with bonds forfeited but uncollected as of June 30, 2004 (end of current year)		
Surety/Other Reclamation (In Lieu of Forfeiture)		
Sites being reclaimed by surety/other party as of June 30, 2003 (end of previous evaluation year) ^B	15	6,098.00
Sites where surety/other party agreed to do reclamation during Evaluation Year 2004 (current year)	11	3,144.00
Sites being reclaimed by surety/other party that were re-permitted during Evaluation Year 2004 (current year)	0	
Sites with reclamation completed by surety/other party during Evaluation Year 2004 (current year) ^C	4	2,953.90
Sites being reclaimed by surety/other party as of June 30, 2004 (current evaluation year) ^B	11	3,144.10

A Includes data only for those forfeiture sites not fully reclaimed as of this date

Includes all sites where surety or other party has agreed to complete reclamation and site is not fully reclaimed as of this date

This number also is reported in Table 5 as Phase III bond release has been granted on these sites

^{*} This number is inflated. Kentucky groups numerous sites in a bid package for reclamation.

Individual sites are not considered reclaimed until reclamation on the entire group is completed.

KENTUCKY STAFFING

(Full-time equivalents at the end of evaluation year)

Function	EY 2004
Regulatory Program	
Permit review	88.00
Inspection	193.00
Other (administrative, fiscal, personnel, etc.)	34.00
Regulatory Program Total	315.00
AML Program Total	80.00
TOTAL	395.00

FUNDS GRANTED TO KENTUCKY BY OSM

(Millions of dollars)

EY 2004

Type of Grant	Federal Funds Awarded	Federal Funding as a Percentage of Total Program Costs
Administration and Enforcement	12.313	52%
Small Operator Assistance	0.733	100%
Totals	13.046	

STATE OF KENTUCKY INSPECTION ACTIVITY

PERIOD: JULY 1, 2003 - JUNE 30, 2004

Inspectable Unit	Number of Inspec	Number of Inspections Conducted						
Status	Complete	Partial						
Active*	7,465	14,438						
Inactive*	344	178						
Abandoned*	49	64						
Exploration	1,484	688						

^{*} Use terms as defined by the approved state program.

STATE OF KENTUCKY ENFORCEMENT ACTIVITY

PERIOD: JULY 1, 2003 - JUNE 30, 2004

Type of Enforcement	Number of	Number of
Action	Actions*	Violations*
Notice of Violation	721	1,360
Failure-to-Abate Cessation Order	183	396
Imminent Harm Cessation Order	32	42

^{*} Does not include those violations that were vacated.

LANDS UNSUITABLE ACTIVITY KENTUCKY

PERIOD: JULY 1, 2003 - JUNE 30, 2004

englis i sa kabangan yang sa kerangan pada kerangan dan dan kerangan sa manandar sa Kabangan sa Kabangan sa Ka	<u></u>	<u> </u>	Section Control of the Control of th
Number of Petitions Received	•	0	
Number of Petitions Accepted		0	
Number of Petitions Rejected		0	
Number of Decisions Declaring Lands Unsuitable		Acreage Declared as	
	0	Being Unsuitable	0
Number of Decisions Denying Lands Unsuitable		Acreage Denied as	
	0	Being Unsuitable	0

Appendix B

State Comments on the Report

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ERNIE FLETCHER
GOVERNOR

AUG 3 / 2004

HELD WELL

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR NATURAL RESOURCES
663 TETON TRAIL
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-2184 FAX (502) 564-6193

www.naturalresources.ky.gov www.kentucky.gov

August 27, 2004

LAJUANA S. WILCHER SECRETARY

SUSAN C. BUSH COMMISSIONER

Mr. William J. Kovacic Lexington Field Office Office of Surface Mining 2675 Regency Road Lexington, KY 40503

Dear Mr. Kovacic:

Thank you for the opportunity to comment on the draft Evaluation Year 2004 Annual Report.

- Page 4, Table of # of Surface Mines/Permitted Acreage The number of surface mines with permitted acreage greater than 1,000 acres should be corrected to 143 for Evaluation Year 2003.
- **Page 6**, Paragraph 4 The Small Coal Operators Advisory Council is not a coal association. The council is a 15-member body appointed by the Governor. Its function is to advise on matters affecting coal production and utilization including coal market development, transportation and storage problems. It also functions in coordinating and improving the working relationships between those state agencies that regulate, serve or aid small coal operators.
- **Page 7-A.** Regulatory, 1. Blackwater Paragraph 1 Please delete reference to OSM, DNR and other EPPC departments from the list of those individuals appointed to the Blackwater Task Force. These entities are not members, but have attended the meetings of the Blackwater Task Force to provide technical support and advice.
- **Page 7-A**. Regulatory, 1. Blackwater Paragraph 2 The statement that "The number of blackwater spills had increased during late 2003 and early 2004 is inaccurate. After the Martin County Coal Company slurry spill, the press was in disbelief that these spills continued to happen. Attorney General Stumbo announced that if the spills did not stop, his office would bring criminal charges against those responsible. Against this backdrop, Secretary Wilcher created the Task Force.

Mr. William J. Kovacic Page Two August 27, 2004

Page 8, Paragraph 2 – The statement that "In response to its findings, DNR implemented additional procedures for the regional and central offices to follow" should be changed to read " In response to its findings, DNR formalized internal procedures to coordinate response activities with the Division of Water.

Page 11 - Mine Mapping Initiative – As of August 20, DNR had deployed 2,078 new mine maps to the web site, with an additional 2,123 packaged and ready for deployment.

Global Comment - All reference to Department of Mines & Minerals (DMM) should be revised to Office of Mine Safety and Licensing.

Page 14, 11 - Geographic Information System - The statement that "The addition of new maps has slowed somewhat due to the current workload involved with scanning the historic deep mine maps for the Kentucky mine mapping initiative is incorrect. Scanning for the Mine Mapping Initiative is being performed by personnel in the Office of Mine Safety and Licensing and is unrelated to the effort discussed in this paragraph. We have no data to suggest that our scanning effort of our historic Mylar overlays has slowed.

Page 16, 2 - Bond Forfeiture Reclamation - The last sentence should be amended to read, "Information in Table 7 shows that 20 acres were forfeited and reclaimed on permanent program sites during the EY.

Page 27 – Oversight Studies - The Office of Surface Mining's oversight study "Workload and Staffing Analysis on MSHA-Class Impoundments" has not been formally submitted to the Department for Natural Resources for review and comment, and as such, draft findings should not be included in the Evaluation Year 2004 Annual Report.

Sincerely,

Susan C. Bush, P.G.

Commissioner -

cc: Larry Adams

Appendix C

Permittees Issued Non-Compliances by DNR (Listed by Descending Number of Non-Compliances)

	·			
			•	
			•	
		•		
		•		

Permittee	# NCs	Violations	Permits in Violation	Total Permits	Permitted Acres	Disturbed Acres
LODESTAR ENERGY INC	61	150	29	11	14,642.82	1,864.36
CONSOL OF KENTUCKY INC	36	69	19	49	61,197.98	3,841.07
NALLY & HAMILTON ENTERPRISES INC	′ 31	55	16	31	19,375,49	10,326.88
LESLIE RESOURCES INC	26	62	. 13	42	30,398.27	15,212.46
AEP KENTUCKY COAL LLC	26	35	17	62	56,671.48	10,475.07
HNR MINING INC	23	39.	16	51	20,892.22	11,400.63
MARTIN COUNTY COAL CORPORATION	22	49	14	34	25,322.26	8.871.87
COOK AND SONS MINING INC	20	38	·. 9	21	23,962.03	1.496.68
SIDNEY COAL COMPANY INC	18	29	. 10	48	81,042,37	1,746.14
CHEYENNE RESOURCES INC	11	23	6	13	4,816.67	3,989.34
HANNCO ENERGY CORPORATION	10	28	6	8	2,094.77	1,592.46
APEX ENERGY INC		17	7	16	10,361,77	3,301,40
CENTENNIAL RESOURCES INC	10	16	6	8	4,226.98	2,878.20
ISLAND FORK CONSTRUCTION LTD	9	24	3	3	1,082,40	
BLACK HILLS COAL INC	9	21	4	4	1,269.60	545.00
FCDC COAL INC	9	20	7	19	13,625.91	925.00
MINNEHAN MINING LLC	9	14	1	1	288.86	197.64
PREMIER ELKHORN COAL COMPANY	9	11	6	41	43,992.61	40.00
CZAR COAL CORPORATION	9	10	4	27	24,590.37	6,898.67
KNOTT COUNTY MINING COMPANY	8	14	4	8	9,929.97	2,767.96
MOTTS BRANCH COAL INC	8	14	4	21	12,406.70	372.00
RED STAR COAL COMPANY	8	13	2	2	1,021.94	2,806.16
17 WEST MINING INC	8	11:	7	16	11,144.90	792.36 7,230.00
SUNNY RIDGE MINING COMPANY INC	. 7	17	4	20	10,048.60	
FRASURE CREEK MINING LLC	. 7	11	3	5	6,485.57	4,096,34 447,00
C & R COAL COMPANY INC	7	9	3	3	357.10	
STRAIGHT CREEK COAL RESOURCES	. 7	8	1	28	22,762.31	149.30
COMPANY STAR FIRE MINING COMPANY	£					19,447.60
MC MINING LLC	6	16	3	10	7,864.04	6,178.42
CLINTWOOD ELKHORN MINING	6	12	3	3	9,287.24	193.00
COMPANY	. 6	,11	5	34	33,727.33	1,199.26
CAMBRIAN COAL CORPORATION	6	8	3	12	4,063.38	2,866.20
CHAS COAL LLC	6	7	6	30	17,798.58	2,995.84
LOCUST GROVE INC	6	7	5	14	6,536.67	3,073.58
DIAMOND MAY COAL COMPANY	5	11	2	. 19	16,349.80	3,176,60
H & D COAL COMPANY INC	5	9	. 2	2	582.61	295.00
APPALACHIAN FUELS LLC	5	8	3	7	4,108.86	1,638.15
HARLAN-CUMBERLAND COAL COMPANY LLC APPOLO FUELS INC	5 5	7	2	6	13,898.96	396.54
SOLOMONS MINING COMPANY			. 4	28	11,506.88	1,791.87
MAGIC COAL COMPANY	5	. 6	3	. 8	3,299.81	1,656,42
	4	13	2	1 -	2,180.30	70.00
STURGEON MINING COMPANY INC		9	2	9	1,066.36	436.08
CENTRAL APPALACHIA MINING LLC	4	7	3	23	11.292.87	1,295.48
EASTERN RESOURCES INC	4	7		1	199.00	199.00
MARTIN COAL PROCESSING CORPORATION RICHARDSON FUEL INC	† †	7	2	! 8	12.00	12.00
· · · · · =		9		٥	4,830.89	534.70

Permittee		# NCs	Violations	Permits in Violation	Total Permits	Permitted Acres	Disturbed Acres
BRANHAM & BAKER COAL COMPANY		4	. 5	2	· · · · · · · · · · · · · · · · · · ·	82,40	2.00
INC MCCOY ELKHORN COAL CORPORATION		4	. 5	4	. 26	35,418.19	498.33
LONE MOUNTAIN PROCESSING INC		4	4	3	· 5	37,190.00	147,50
HARLAN RECLAMATION SERVICES LLC		. 3	12	3	19	38,791.28	1,664.77
CUMBERLAND RIVER COAL COMPANY		3	7	2	12	13,980.36	1,091.48
T & W ENTERPRISES LLC		3	7	. 1	1	15.80	10.00
LEE-PAUL COAL COMPANY INC		3	6	. 3	3	115.85	81.75
MCCOY COAL COMPANY		3	6	I	l	1,359.77	1,144.16
WHITAKER COAL CORPORATION		3	6	2	13	20,152.27	1,297.17
CNS MINING INC		3	5 .	- 1	1	2,670.16	7.40
EVERGREEN MINING INC	. •	3		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · 4	404.92	137.60
RUST MINING LLC		3	5	1	1	140.00	90.00
ADDINGTON INC		3	4 .	2	. 4	3,578.32	3,066.84
BSE MINING INC		3	4	2	2	635.04	20.00
JOHNS CREEK PROCESSING COMPANY		3	4	. 1	6	4,015,49	290.81
KELLY BRANCH RESOURCES INC		3	. 4	1	1	1,554.91	10.00
MILLER BROS CONST INC		3	4	1	1	2,530.09	2,300.00
MINE RITE COAL CO INC		. 3	4		9	1,918.77	216.85
NEW RIDGE MINING COMPANY		3	4	2	· · 8	3,265.74	315.74
ROAD FORK DEVELOPMENT COMPANY INC		3	4	1	ŢŢ.	23,782,20	785.47
JAMIESON CONSTRUCTION COMPANY		3	3	2	11	2,251.94	743.54
KENTUCKY MAY COAL COMPANY INC		3	, 3	3	. 23	19,083.36	556.61
LEECO INC		3	. 3	1	12	26,477.67	357.33
MANALAPAN MINING COMPANY INC		3	3 .	2	12	16,221.24	807.94
MILLER BROS COAL INC		3	. 3	3	13	8,868.52	4,758.50
VERNON SPURLOCK		2	9	1	2	126.10	5.40
BLEDSOE COAL CORPORATION		2	7	1	22	32,959.23	1,887.68
G & G ENERGIES INC		2	7	. 1	1	23.40	17.30
BDCC HOLDING COMPANY INC		. 2	6	2	22	36,231.23	739.59
BEAVER MINERALS INC		. 2	6	1	1	166.74	100,00
DEMA COAL COMPANY INC		2	6	1	2	639.75	5.70
FOSSIL FUEL LEASING INC		2 ·	6	2	1	276.32	114.13
ALPHA MINING CO		2	5	. 1	1	789.30	30.00
BEAR FORK RESOURCES LLC		2	5	1	1	1,400.57	200.00
IKERD-BANDY CO INC		2	. 5	1	7	5,170.21	3,094.16
JOHNSON-FLOYD COAL COMPANY LLC		2	5	1	1	101.08	40.00
BRCCOAL COMPANY INCORPORATED		2	4	1	2	743.59	410.96
CORBIN MINING LLC		2	4	2	. 2	532.44	350.00
ENTERPRISE MINING COMPANY LLC		2	. 4	2	29	-37,143.06	986.86
H B & S COAL COMPANY INC		2	4	2	3	341.39	158.48
HOLBROOK MINING COMPANY INC		2	4 .		2	294.21	173.00
KING BROTHERS COAL INC		2	4	1	1	583.40	8.35
M & D PIPELINE INC		. 2	4	2	, 2	2,441.94	424.40
MASSIVE MINING INC		2	. 4	1	1	155.10	17.00
NEW HORIZONS COAL INC		2	4	I	15	11,846.35	908.16

Page 3 of 4 07/20/2004

Permittee	# NCs	Violations	Permits in Violation	Total Permits	Permitted Acres	Disturbed Acres
BLACK DIAMOND RESOURCES INC	2	3	t	4	1,830.40	610.00
D & C MINING CORPORATION	2	3	2	. 2	296,90	17.00
SAND HILL ENERGY INC	2	3	2	6	198.40	. 31.80
SEQUOIA ENERGY LLC	2	3	2	11	5.260.80	47.50
WHITE CLOUD MINING CO INC	2	3	1	. 1	246.14	9.00
AUSTIN COAL INC	2	· 2	1	. 1	424.92	190.00
DEBRA LYNN COALS INC	2	2 .	2	6	2,769.50	480.79
DIXIE FUEL COMPANY LLC	2 .	2	2	5	4,796.80	248,93
H B COAL INC	2	2	1	1	68.60	5.00
NOBLE CONSTRUCTION	2	2	1	1	14,30	9.00
PETER FORK MINING COMPANY	2	2	Ι	9	4,589.32	475.54
REX COAL COMPANY INC	. 2	,	. 2		1,941.23	4.00
MAGNUM MINING INC	1	10	1.	• 1	594.85	60.00
ROCKCASTLE MINING COMPANY INC	1	6	1	2	416.45	192.44
RGT MINING AND CONSTRUCTION CO	I	5	1	1	215.00	9.00
SLY BRANCH ENERGY INC	. 1	5	. 1	1	275.01	16.00
CAMPTON PROCESSING LLC	1	4	- 1	1	7.52	7,50
KENTUCKY UNITED COAL LLC	1	. 4	.1	4	2,630.40	1,323.60
KINNEY BRANCH COAL COMPANY INC	ţ	4 .	I	1	100.66	7.01
WAYNE REID & DARRELL MCQUEEN CONSTRUCTION ARGUS ENERGY LLC	1	4	1	•		
BEVINS BRANCH RESOURCES INC	1	3	1	9	4,845.84	642.54
EVERGREEN LAND CORPORATION	1	3	1	1	1,567.84	600.00
KEYSTONE SENIOR LLC	1	3	1		458.24	4.70
MAVERICK MINING COMPANY LLC	1	. 3	. 1			
NEW HARLAN BLOCK COAL INC	1	3	. 1	. 1	112.65	5.00
PATSY JANE COAL COMPANY	1	3	· · · · · · · · · · · · · · · · · · ·	2	115.11	5.10
SCHOATE MINING CO LLC	ı	3	1	2	517.58	290.00
SHAMROCK COAL COMPANY	I	3	 I	2	2,026.50	580.00
INCORPORATED				10	20,390.08	855.15
THE ELK HORN COAL COMPANY LLC	1	3	1	8	8,539.71	62.20
ANDALEX RESOURCES INC	1	2	I .	. 1	182.00	43.00
BELL COUNTY COAL CORPORATION	1	2	. I	14	20,739.78	1,297.70
BONICO FUEL INC	I	2	i	1	78.62	43.12
CANDLE RIDGE MINING INC	1	. 2	1	6	1,281.30	89.30
D & M LAND WORKS LLC	1	2	1	2	128.30	18.60
D S ENERGY INC	1	2	I	. 3	2,490.26	10.05
LWF LEASING LLC	1	. 2	1	. 4	1,257.73	19.01
PATRICK PROCESSING LLC	1	2	į	. 3	1,794.16	17.50
PATRIOT COAL COMPANY LTD	l	. 2	t	. 11	15,251.22	3,557.00
PENNYRILE COAL CO INC	1	2 .	1	2 .	7,892.81	1,014.90
PHILLIP F BURDEN	l	2	t .	2	118.00	90,00
PONTIKI COAL LLC	I	2	1	6	20,329.00	185.80
PRICE COAL COMPANY INC	. 1	.2	1	1	243,21	3.21
RESOURCE LAND COMPANY LLC	t	2	Ţ	. 2	10,202.90	412.00
RING COAL SALES INC	Ι	2	I	. 1	165.52	6.98

07/20/2004

Permittee	# NCs	Violations	Permits in Violation	Total Permits	Permitted Acres	Disturbed Acres
ROADSIDE PROCESSING INC	1	2		2 .	145.15	145.15
STRATA MINING INC	1	2	. 1	4	1,618.20	825.00
ALLEY-CASSETTY COAL CO INC	I	1	. 1	. 3	1,098.20	170.00
B & C ENERGY INC	. 1	- 1	I	2	163.46	35.00
BEECH CREEK ENERGY INC	. 1	1	ť	2	85.75	35,45
BEECH FORK PROCESSING INC	1	1	1	18	15,938.65	1,572.41
BERKELEY ENERGY CORPORATION	. 1	1	, 1	13	5,247.45	249.69
BUCKHORN PROCESSING COMPANY	. 1	1	1	4	394.85	322.85
C G M COAL CO INC	T	. 1	1	1	534.53	5.00
EVANS COAL CORPORATION	· t	1	1	. 3	861,95	155.00
HARDSHELL TIPPLES INC	. 1	1	1	1	889.06	9.00
IKERD COAL COMPANY LLC	1	1	1	2	992.50	43.00
JERICOL MINING INC	I	l	·1	15	17,111.35	1,119.99
JESS BOWLING	1	1	1	1	132.70	30.00
JOHNS CREEK COAL COMPANY	1	. 1	1	2	5,611.35	58.00
KANNAN MINING COMPANY	. 1	. 1	1	, 3 .	387.47	158.62
KENTUCKY SOUTHERN COAL	1	1	1	1	259.00	43.00
CORPORATION LITTLE BOYD COAL CO INC	1	1.	1	t	405.74	250.00
LITTLE CREEK VENTURE LLC	1	1	1	I	896.30	6,00
M & J TRUCKING	1	1	ī	1	86.85	62,45
M & T LOGGING INC	1	1	1	1	94.00	15.00
MARATHON COAL CORPORATION	L	1	1	1 .	101.29	2.29
MARE CREEK SAND COMPANY	1	1	. 1	1	3.97	3.97
INCORPORATED PETER CAVE MINING COMPANY	1	1	1	5	14,391.90	845,71
PINNACLE COAL CORPORATION	1	1	1	1	5.90	5.90
R & L WINN INC	1	1	1	1	201.60	67,00
R M MINING COMPANY INC	1	1 -	. 1			
T & T COAL INC	1	1	1	8	556.00	223.60
THE ELK HORN COAL CORPORATION	. 1	ı	. 1	1	514.13	8.00
WEDDINGTON BRANCH MINING CO INC	. 1	1	1	1	161.60	166.50

Appendix D

Permittees Issued Non-Compliances by DNR (Listed Alphabetically)

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Page 1 of 4 07/20/2004

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Pe	ermittee /	# NCs	Violations	Permits in Violation	Total Permits	Permitted Acres	Disturbed Acres
17 V	WEST MINING INC	8	11,	7	16	11,144.90	7,230.00
ADI	DINGTON INC	. 3	4	2	4	3,578.32	3,066.84
AEF	P KENTUCKY COAL LLC	26	35	17	62	56,671.48	10,475.07
ALI	LEY-CASSETTY COAL CO INC	1	1	1 .	3	1,098.20	170.00
ALF	PHA MINING CO	. 2	, 5	I	1	789.30	30.00
ANI	DALEX RESOURCES INC	1	. 2	1	1	182.00	43,00
APE	EX ENERGY INC	10	17	7	16	10,361.77	3,301.40
APF	PALACHIAN FUELS LLC	5	8	3	7	4,108.86	1,638.15
APF	POLO FUELS INC	5	6	4	28	11,506.88	1,791.87
ARG	GUS ENERGY LLC	1	3	1	9	4,845.84	642.54
AUS	STIN COAL INC	2	2	1	. 1	424.92	190.00
В&	C ENERGY INC	· · · · · · · · · · · · · · · · · · ·	in the second	1 1	2	163.46	35.00
BR	C COAL COMPANY INCORPORATED	2	4	1	2	743.59	410.96
BDO	CC HOLDING COMPANY INC	2	6	2	22	36,231.23	739.59
BEA	AR FORK RESOURCES LLC	2	5	ľ	i	1,400.57	200,00
BEA	AVER MINERALS INC	2	6	1	- 1	166.74	100.00
BEE	ECH CREEK ENERGY INC	. 1	1	1	2	85.75	35.45
BEE	ECH FORK PROCESSING INC	1	. 1	1	18	15,938.65	1,572.41
BEL	LL COUNTY COAL CORPORATION	1	2	1	14	20,739.78	. 1,297.70
BEF	RKELEY ENERGY CORPORATION	1	. 1	1	13	5,247.45	249.69
BEV	VINS BRANCH RESOURCES INC	1	, 3	1	1	1,567.84	600.00
BLA	ACK DIAMOND RESOURCES INC	2	3	1	4	1,830.40	610.00
BLA	ACK HILLS COAL INC	9	21	4	4	1,269.60	925.00
BLE	EDSOE COAL CORPORATION	2	7	1	22	32,959.23	1,887.68
BO	NICO FUEL INC	1	2	1	1	78.62	43.12
BRA	ANHAM & BAKER COAL COMPANY INC	4	5	2 ·	1	82.40	2.00
BSE	E MINING INC	3	4	2	2	635.04	20.00
BUG	CKHORN PROCESSING COMPANY	1	1	. 1	4	394.85	322.85
C &	R COAL COMPANY INC	7	9	3	3	357.10	149.30
CG	M COAL CO INC	1 - 1	. 1 .	1		534.53	5,00
CA	MBRIAN COAL CORPORATION	6	. 8	3	12	4,063.38	/ 2,866.20
CAI	MPTON PROCESSING LLC	1	4	1	. 1	7.52	7.50
CA	NDLE RIDGE MINING INC	1	2	. 1	6	1,281.30	89.30
CEN	NTENNIAL RESOURCES INC	10	16	6	8	4,226.98	2,878.20
CEN	NTRAL APPALACHIA MINING LLC	4	7	3	23	11,292.87	1,295.48
CH	AS COAL LLC	6	7	6	30	17,798.58	2,995.84
CHI	EYENNE RESOURCES INC	11.	23	6	13	4,816.67	3,989.34
	NTWOOD ELKHORN MINING	. 6	11	5	34	33,727.33	1,199.26
	MPANY S MINING INC	3	. 5	1	. 1	2,670.16	7.40
	NSOL OF KENTUCKY INC	36	69	19	49	61,197.98	3,841.07
	OK AND SONS MINING INC	20	38	9	21	23,962.03	1,496.68
	RBIN MINING LLC	2	4	2	2	532.44	350.00
	MBERLAND RIVER COAL COMPANY	3	7	2	12	13,980.36	1,091.48
	AR COAL CORPORATION	9	10	4	27	24,590.37	2,767.96
	c C MINING CORPORATION	2	3	2	2	296.90	17.00

Commonwealth of Kentucky EPPC DNR

Surface Mining Information System OSM - Violations between 7/01/2003 and 6/30/2004

Permittee	# NCs	Violations	Permits in	Total Permits	Permitted Acres	Disturbed Acres
D & M LAND WORKS LLC	1	2	Violation 1	· · · · · · · · · · · · · · · · · · ·	128,30	18,60
D S ENERGY INC	1	. 2	1	. 3	2,490.26	10.05
DEBRA LYNN COALS INC	2	2	2	6	2,769.50	480.79
	2	6	1	2	639,75	5.70
DEMA COAL COMPANY INC	5	11	2	19	16,349.80	3,176.60
DIAMOND MAY COAL COMPANY	2	2	2	5	4,796.80	248,93
DIXIE FUEL COMPANY LLC	4	7		1	199.00	199.00
EASTERN RESOURCES INC		4	2	29	37,143,06	986,86
ENTERPRISE MINING COMPANY LLC	2		1	3	861.95	155.00
EVANS COAL CORPORATION	1	1	. 1	. 1	458.24	4.70
EVERGREEN LAND CORPORATION	1	3	2	4	404.92	137.60
EVERGREEN MINING INC		,		19	13,625.91	197.64
FCDC COAL INC	9	20	7		276,32	114,13
FOSSIL FUEL LEASING INC	2	6	2	1	6,485.57	447.00
FRASURE CREEK MINING LLC	. 7	. 11	3	. 5		
G & G ENERGIES INC	2	7	1	1	23.40	17.30
H & D COAL COMPANY INC	5	9	2	2	582.61	295.00
H B & S COAL COMPANY INC	2	4	2		341.39	158.48
H B COAL INC	2	2	1		68.60	5.00
HANNCO ENERGY CORPORATION	10	. 28	6	8 .	2,094.77	1,592.46
HARDSHELL TIPPLES INC	1	1	1	. 1	889.06	9.00
HARLAN RECLAMATION SERVICES LLC	3	12	3	· .	38,791.28	1,664.77
HARLAN-CUMBERLAND COAL COMPANY LLC	5	. 7.	2	6	13,898.96	396.54
HNR MINING INC	23	39	16	51	20,892.22	11,400.63
HOLBROOK MINING COMPANY INC	2	4	1	2	294.21	173.00
IKERD COAL COMPANY LLC	1	1	1	2	992.50	43.00
IKERD-BANDY CO INC	2	5	1	7	5,170.21	3,094.16
ISLAND FORK CONSTRUCTION LTD	9	24	. 3	3	1,082.40	545.00
JAMIESON CONSTRUCTION COMPANY	3	3	. 2	11	2,251.94	743.54
JERICOL MINING INC	1	. 1	1	15	17,111.35	1,119.99
JESS BOWLING	17	1	1	I	132.70	30.00
JOHNS CREEK COAL COMPANY	1	1	1		5,611.35	58.00
JOHNS CREEK PROCESSING COMPANY	3	4	1	. 6	4,015.49	290.81
JOHNSON-FLOYD COAL COMPANY LLC	2	5	1		101.08	40.00
KANNAN MINING COMPANY	1	1	1	. 3	387.47	158.62
KELLY BRANCH RESOURCES INC	3	4	1	1	1,554.91	10.00
KENTUCKY MAY COAL COMPANY INC	3	. 3	. 3	23	19,083.36	556.61
KENTUCKY SOUTHERN COAL	1	1	1	1	259.00	43.00
CORPORATION KENTUCKY UNITED COAL LLC	i	4	. 1	4	2,630.40	1,323.60
KEYSTONE SENIOR LLC	1	3	. 1			
KING BROTHERS COAL INC	2	4	1	. 1	583.40	8.35
KINNEY BRANCH COAL COMPANY INC		4		1	100.66	7.01
KNOTT COUNTY MINING COMPANY	8	14	. 4	4 8	9,929.97	372.00
LEE-PAUL COAL COMPANY INC	3	6			115.85	81.75
LEECO INC	3	3			26,477.67	357.33
LESLIE RESOURCES INC	. 26	62	13		30,398.27	15,212.46
PEOPLE RESOURCES INC	20	52	•		•	

Page 3 of 4 07/20/2004

Permittee	# NC	Cs Violations	s Permits in Violation		Total Permits	Permitted Acres	Disturbed Acres
LITTLE BOYD COAL CO INC	1		1		1	405.74	250.00
LITTLE CREEK VENTURE LLC		1	1		1	896.30	6.00
LOCUST GROVE INC	6	7	5		14	6,536.67	3,073.58
LODESTAR ENERGY INC	61	150	29		11	14,642.82	1,864.36
LONE MOUNTAIN PROCESSING INC	. 4	4	. 3		5	37,190.00	147.50
LWF LEASING LLC	1	2	. 1		4	1,257.73	19.01
M & D PIPELINE INC	2	2 4	7.2		2	2,441.94	424.40
M & J TRUCKING	1	. 1	1		ı	86.85	62.45
M & T LOGGING INC	1	1. 1	1		1	94.00	15.00
MAGIC COAL COMPANY	4	13	2		. 1	2,180.30	70.00
MAGNUM MINING INC	1	10	1	•	1	594.85	60.00
MANALAPAN MINING COMPANY INC	3	3	2		12	16,221.24	807.94
MARATHON COAL CORPORATION	. •	ı I	1	•	1	101.29	2.29
MARE CREEK SAND COMPANY	1	1	1		1	3.97	3.97
INCORPORATED MARTIN COAL PROCESSING	. 4	. 7	. 1		1	12.00	12.00
CORPORATION MARTIN COUNTY COAL CORPORATION	22	2 49	14		34	25,322.26	8,871.87
MASSIVE MINING INC	. 2	2 4	1		1	155.10	17.00
MAVERICK MINING COMPANY LLC	1	1 3	1		.1,	112.65	5.00
MC MINING LLC		12	3		3	9,287.24	193.00
MCCOY COAL COMPANY	3	3 6	i		1	1,359.77	1,144.16
MCCOY ELKHORN COAL CORPORATION	4	1 5	4		26	35,418.19	498.33
MILLER BROS COAL INC	3	3 3	3		13	8,868.52	4,758.50
MILLER BROS CONST INC	3	3 4	1		1	2,530.09	2,300.00
MINE RITE COAL CO INC	. 3	3 4	2		. 9	1,918.77	216.85
MINNEHAN MINING LLC	9	14	. 1		1	288.86	40.00
MOTTS BRANCH COAL INC	8	3 14	4		21	12,406.70	2,806.16
NALLY & HAMILTON ENTERPRISES INC	. 31	1 55	. 16		31	19,375.49	10,326.88
NEW HARLAN BLOCK COAL INC		1 3	1		2	115.11	5.10
NEW HORIZONS COAL INC	2	2 . 4	. 1		15	11,846.35	908,16
NEW RIDGE MINING COMPANY	3	3 4	2	•	8	3,265.74	315.74
NOBLE CONSTRUCTION	2	2 2	1		1	14.30	9.00
PATRICK PROCESSING LLC		1 2	1		3	1,794.16	17.50
PATRIOT COAL COMPANY LTD	!	1 2	1		11	15,251.22	3,557.00
PATSY JANE COAL COMPANY	;	1 3	1		2	517.58	290.00
PENNYRILE COAL CO INC		1 2	. 1		2	7,892.81	1,014.90
PETER CAVE MINING COMPANY		1	1		5	14,891.90	845.71
PETER FORK MINING COMPANY	• 1	2 2	1		9	4,589.32	475.54
PHILLIP F BURDEN		1 2	1		2	118.00	90.00
 PINNACLE COAL CORPORATION	•	1 1	1		1	5.90	5.90
PONTIKI COAL LLC		1 .2	1		6 .	20,329.00	185.80
PREMIER ELKHORN COAL COMPANY	g	9 11	6		41	43,992.61	6,898.67
PRICE COAL COMPANY INC		1 2	1		1	243.21	3.21
R & L WINN INC		1 1	. 1		1	201.60	67.00
R M MINING COMPANY INC		1 I	1		4		
RED STAR COAL COMPANY		8 13	2		2	1,021.94	792.36

Commonwealth of Kentucky EPPC DNR

Surface Mining Information System OSM - Violations between 7/01/2003 and 6/30/2004

Permittee	# NCs	Violations	Permits in Violation	Total Permits	Permitted Acres	Disturbed Acres
RESOURCE LAND COMPANY LLC	· 1	2	1	2	10,202.90	412.00
REX COAL COMPANY INC	2	2	2	3	1,941.23	4.00
RGT MINING AND CONSTRUCTION CO	1	5	1	1	215.00	9.00
RICHARDSON FUEL INC	· 4	6	2	8	4,830.89	534.70
RING COAL SALES INC	l	2	1	. 1	165.52	6,98
ROAD FORK DEVELOPMENT COMPANY	3	4	I.	11	23,782.20	785.47
INC ROADSIDE PROCESSING INC	1 '	2	1	2	145.15	145.15
ROCKCASTLE MINING COMPANY INC	1	6	1	2	416.45	192.44
RUST MINING LLC	3	. 5	1	1	140.00	90.00
SAND HILL ENERGY INC	2	-3	2	. 6	198.40	31.80
SCHOATE MINING CO LLC	1	3	1	2	2,026.50	580.00
SEQUOIA ENERGY LLC	2	3	2	11	5,260.80	47.50
SHAMROCK COAL COMPANY	1	3	1	10	20,390.08	855.15
INCORPORATED ' SIDNEY COAL COMPANY INC	18	29	10	48	81,042,37	1,746.14
SLY BRANCH ENERGY INC	1	5	1	1	275.01	16.00
SOLOMONS MINING COMPANY	5	6	3	. 8	3,299.81	1,656.42
STAR FIRE MINING COMPANY	6	16	3	10	7,864.04	6,178.42
STRAIGHT CREEK COAL RESOURCES	. 7	. 8		. 28	22,762.31	19,447.60
COMPANY STRATA MINING INC	1.	2	1	4	1,618.20	825.00
STURGEON MINING COMPANY INC	4	9	2	9	1,066.36	436.08
SUNNY RIDGE MINING COMPANY INC	. 7 ,	17	. 4	20	10,048.60	4,096.34
T&T COAL INC	1	1		8	556.00	223.60
T & W ENTERPRISES LLC	. 3	7	1	1	15.80	10.00
THE ELK HORN COAL COMPANY LLC	1	3	1	8	8,539.71	62.20
THE ELK HORN COAL CORPORATION	1	1	1 ;	1	514.13	8.00
VERNON SPURLOCK	2	9	1	2	126.10	5.40
WAYNE REID & DARRELL MCQUEEN	1	4	1		•	
CONSTRUCTION WEDDINGTON BRANCH MINING CO INC	- 1	1	1	1	161,60	166.50
WHITAKER COAL CORPORATION	3	6	2	13	20,152.27	1,297.17
WHITE CLOUD MINING CO INC	2	3	1	. 1	246.14	9.00

Appendix E

2003 Fill Information

2003 Fill Information

A comprehensive effort was completed by the Lexington Field Office (LFO) to collect fill information on all new permits, amendments, and major amendments issued in eastern Kentucky by Kentucky's Department for Natural Resources (DNR) during Calendar Year (CY) 2003. This effort has three purposes: (1) to identify those permitting actions involving excess spoil fills (fills) on either surface, underground, or other mining operations; (2) to collect pertinent fill and watershed information on each of the proposed fills; and, (3) to collect measurements from the sediment pond to the mine area and fill. DNR issued a total of 224 permitting actions (74 new permits, 97 amendments, and 53 major amendments) in CY 2003 involving surface, underground, or other mining operations. LFO found 92 permitting actions that contained information on 316 proposed fills. The other 132 permitting actions did not involve fills. Table 1 breaks out the permitting actions with proposed fills.

Table 1

Mining Type	New Permits/ Number of Fills	Amendments/ Number of Fills	Major Amendments/ Number of Fills	Totals
Surface Mining	41/213	23/63	2/2	66/278
Underground Mining	14/23	8/10	2/3	24/36
Other Mining	1/1	1/1	0/0	2/2

An analysis was completed on each of the 316 fills. Table 2 provides the averages for some of the important features relating to the fills.

Table 2

Table 2									
Feature	Surface Mines	Underground Mines	Other Mines						
Acres (Ave.)	12.23 acres	4.48 acres	2.93 acres						
Volume (Ave.)	1,050,508 yd³	219,710 yd³	47,976 yd³						
Length (Ave.)	890 feet	580 feet	345 feet						
Watershed Acres (Ave.)	45.31 acres	53.92 acres	34.03 acres						

Table 3 breaks out the number of fills by watershed acreage.

Table 3

1401	IC J
Watershed Acreage	Number of Fills
Less than 50 Acres	237 (75%)
50 Acres to 100 Acres	45 (14%)
100 Acres to 150 Acres	20 (6%)
150 Acres to 200 Acres	6 (2%)
200 Acres to 250 Acres	3 (1%)
Greater than 250 Acres	5 (2%)

Table 4 breaks out the number of fills by fill acreage.

Table 4

Fill Acreage	Number of Fills
Less than 5 Acres	154 (49%)
5 Acres to 10 Acres	66 (21%)
10 Acres to 20 Acres	51 (16%)
20 Acres to 30 Acres	20 (6%)
30 Acres to 50 Acres	15 (4.7%)
50 Acres to 100 Acres	9 (3%)
100 Acres to 200 Acres	0 (0%)
Greater than 200 Acres	1 (0.3%)

Table 5 breaks out the number of fills proposed, average watershed acres, and average fill acres in each of the Corps of Engineers Districts in Kentucky.

Table 5

7									
Corps of Engineers Districts	Number of Fills	Average Watershed Acres	Average Fill Acres						
Huntington District	114	57.16 acres	15.11 acres						
Louisville District	134	34.36 acres	8.78 acres						
Nashville District	68	51.23 acres	8.51 acres						

As noted in Table 3, LFO found three fills on three different permits, that affect watershed areas greater than 250 acres. Table 6 identifies those permits and fills.

Table 6

Surface Mines											
Company	Permit Fill ID Fill Acres		Fill Volume	Watershed Acres							
Nally & Hamilton Enterprises	8480189	HF-2	8.73	564,002 yd³	364.58						
Cumberland River Coal Company	8670433	HF-5,6,7*	145.93*	21,093,000 yd ³ *	503.88*						
AEP Kentucky Coal LLC	8980647	HF-9	8.34	590,432 yd³	438.40						
Bear Fork Resources LLC	8980674	HF-5	92.78	701,122 yd³	272.96						
AEP Kentucky Coal LLC	8984162	HF-4	6.40	20,750,129 yd³	465.70						

^{*} Combines three fills

A second effort was conducted by LFO that collected permit specific information on each of the 74 (50 surface, 16 underground, and 8 other) new coal mining permits issued in CY 2003. This effort focused on several different sections of the permit application including permitted acreage, mine type, total volume of spoil generated, swell factor, spoil placed in excess spoil storage areas compared to spoil used for reclamation, remining, and use of highwall miners.

Table 7 provides a comparison by mine type of the information collected on new surface coal permits issued in CY 2003.

Table 7

		Table 7				
		Surface	Underground	Other		
New Permits with an AOC Var	iance Approved	3	0	1		
Average Percent of Overburden I	Returned to Bench 74% na 5					
Range of Overburden Returned to	o Bench	39% - 93%	na	52%		
New Permits with Remining Var	ances	0	na	. 0		
	Average Returned	. na	na	па		
	Range Returned	па	na .	па		
Average Number of Fills Propose	ed	4.3 na		1		
Range of Fills Proposed		1 - 9	na	1		
New Permits Without an AOC	Variance Approved	47	16	7		
Average Percent of Overburden F	Returned to Bench	84%	91%	0%		
Range of Overburden Returned to	Bench	50% - 100%	72% - 103%	0%		
New Permits with Remining Vari	ances	8	6	1		
	Average Returned	93%	93%	. 0%		
	Range Returned	84% - 100%	56% - 100%	0%		
Average Number of Fills Propose	ed	4.3	1.4	0		
Range of Fills Proposed		0 - 19	0 - 6	0		

A third effort was conducted by LFO to collect information on the distance from the fills to the ponds and the distance from the mining areas to the ponds. Measurements were taken at the pond located below the fill. A total of 316 fills (278 fills with new ponds, 38 fills with existing ponds) were evaluated (See Appendix A).

Table 8 provides a comparison by new and existing ponds collected on new permits, amendments, and major amendments.

Table 8

Features Measured	Average Distance
Existing Ponds to Fills	684 feet
Existing Ponds to Mining Area	200 feet
New Ponds to Fills	441 feet
New Ponds to Mining Area	295 feet

On the following pages, Tables 9, 10 and 11 summarizes the information collected on all new permits issued in CY 2003, for surface, underground, and other mining operations.

Table 9 - Surface Mines

				Laute	9 - Surfac	elvimes	•		
Сотряну	Permit Number	Acres	Mine Type	AOC Variance (Y/N)	Swelled Overburden (yds ¹)	Predicted Swell Factor	Proposed Overburden Placed in Fills (yds ³)	Proposed Overburden used in Reciamation/Percent (yds ¹ /%)	Number of Fills Proposed
Gatliff Coal Co	8070302	219.39	Contour, Auger	И	30,933,022	.20	2,234,559	28,698,463 (93)	2
Leslie Resources Inc	8130255	1,668.70	Contour, Auger	N	24,716,882	.20	5,128,576	19,588,306 (79)	19
Deep Woods Mining LLC	8130264	792,00	Area, Contour, Auger	И	93,081,942	.20	10,366,409	82,715,533 (89)	i7
Hibbard & Rader Land Co Inc	8260553	12,30	Contour, Auger	N	88,308	.15	3,830	84,478 (96)	.1 .
Reid & Sons Construction	8260575	54.00	Contour, Auger	N	1,405,240	.18	151,680	1,253,560 (89)	5
Sand Hill Coal Processing Co	3260586	11.00	Contour	Y	843,430	.18	56,704	786,726 (93)	l
Gray's Excavating Inc	8260587	0.80	Contour	N	1,523	.18	0	1,523 (100)	0
Motts Branch Coal	8360300	580.70	Area, Contour, Auger	N	38,435,083	.20	14,855,416	23,579,667 (61)	10
Frasure Creek Mining LLC	8360301	354.14	Contour, Auger	И	7,670,730	.25	2,299,056	5,371,674 (70)	4
Appalachian Fuels LLC	8450073	254.48	Area, Contour	N	15,853,590	.20	2,804,419	13,049,171 (82)	15
Nally & Hamilton Enterprises Inc	8480189	690.88	Contour, Auger	И	46,197,915	.25	5,887,252	40,310,663 (87)	4
Debra Lynn Coals Inc	8480216	167.33	Contour, Auger	N	7,759,614	.20	0	7,759,614 (100)	0
Cloverfork Mining & Excavating	8480222	230.00	Contour, Remining	N	12,919,761	.25	2,064,330	10,855,431 (84)	8
Evans Coal Corporation	8480223	374.80	Contour, Auger	N	10,138,887	.10	463,609	9,675,278 (95)	: 5
Sturgeon Mining Company Inc	8550170	13.50	Contour	N	426,066	.20	21,968	404,098 (95)	1
United Farming Inc	8550171	. 33.00	Contour	N	901,424	.26	123.798	777,626 (86)	
T & W Enterprises	8580169 •	15,80	Area, Contour	И	502,000	.20	0	502,000 (100)	0
Dancoal Inc	8580171	42.14	Contour, Auger, Area	N	1,343,000	.20	111,000	1,232,000 (92)	2
Mine Rite Coal Co Inc	8580172	30.12	Contour, Auger	И	1,598,000	.20	277,000	1,321,000 (83)	2
Green Tree Reciamation Inc	8580174	4.30	Area	N	7,180	.20	0	7,180 (100)	0
Johnson-Floyd Coal Co LLC	8580180	101.08	Contour, Auger	И	7,634,000	.20	2,818,000	4,816,000 (63)	1
Appalachian Fuels LLC	8600397	514.20	Contour, Auger	, N	76,812,858	.25	13,901,972	62,910,886 (82)	3
Appalachian Fuels, LLC	8600401	147.80	Area	И	3,699,396	.25	533,188	3,166,208 (86)	5
Rimco LLC	8610462	123.50	Contour, Auger, Remining	N	÷,330,852	.20	715,712	3,615,140 (84)	3
J R Mining Inc	8610468	91,00	Contour, Auger	N	3,122,400	.20	139,400	2,983,000 (96)	4
G & S Coal Inc	8610469	29.10	Contour, Auger	N ·	321,613	.20	33,270	288,343 (90)	3

Table 9 - Surface Mines - Continued

Company	Permit Number	Acres .	Mine Type	AOC Variance (Y/N)	Swelled Overburden (Yds ¹)	Predicted Swell Factor	Proposed Overburden Placed in Fills	Proposed Overburden used in Reciamation/Percent	Number of Fills Proposed
D & M Lands Works LLC	8610470	80.40	Contour, Auger	И	2,109,704	.27	(yds ³) 321,707	(yds ¹ /%) . [,787,997 (85)	8
Jamieson Construction Co	8610471	166.60	Contour, . Auger	И	6,757,106	.20	1,057,460	5,699,646 (84)	7
Ikerd Coal Company LLC	8610474	363.20	Contour, Auger	И	23,709,143	.18	848,207	22,860,936 (96)	2
Ruby Coal Company of London Inc	8630281	52,10	Contour, Auger	И	517,434	.18	30,208	487,226 (94)	. 1,
Jamieson Construction Co	8630290	56.23	Contour, Auger	И	1,558,809	.25	52,353	1,506,456 (97)	2
Reid & Sons Construction	8630292	25.50	Contour	И	602,234	.18	0	602,234 (100)	0
B & C Energy Inc	8640159	66,55	Auger, Remining	И	0	0	0	0	0
B & C Energy Inc	8640160	199.39	Contour, . Auger	N	5,146,688	.25	1,997,868	3,148,820 (61)	7 .
Cumberland River Coal Co	8670433	1,455.17	Contour, Auger	N	355,550,000	.20	59,569,000	295,981,000 (83)	5
Premier Elkhorn Coal Company	8670438	116.30	Contour, Auger, Area	И	8,994,641	.25	2,173,197	6,821,444 (76)	2
Licking River Resources Inc	8770164	297.42	Contour, Auger, Area	И	10,197,373	.25	1,989,183	8,208,190 (80)	5
Czar Coal Corporation	8800143	312.92	Area, Contour, Auger	. Y	71,089,380	.25	7,746,712	63,342,668 (89)	9
Martin County Coal Corporation	8800149	155.30	Contour	и	13,245,864	.25	3,269,843	9,976,021 (75)	2
Miller Bros Coal Inc	8800153	1,125.42	Area, Contour	N.	108,308,119	.25	22,775,832	85,532,287 (80)	12
Martin County Coal Corporation	8800158	11,50	Refuse Disposal	N	0	0	0	0	0
T & T Coal Inc	8950148	2 22. 91	Area, Contour, Auger	И	5,025,839	.25	870,874	4,154,965 (83)	17
Botner Enterprises	8950149	9,63	Area, Contour	N	74,111	,25	3,741	70,370 (95)	2 .
Botner Enterprises	8950151	16.20	Contour	И	317,291	.20	61,497	255,794 (81)	3
Leslie Resources Inc	8970423	211.09	Area, Contour	И	13,015,239	.25	6,494,264	6,520,975 (50)	4
Perry Land and Development Inc	8970429	245.89	Area, Contour	Y	26,939,098	.25	16,482,675	10,456,423 (39)	3
AEP Kentucky Coal LLC	8980630	202.56	Contour, Auger	N.	22,944,357	.25	4,526,771	18,417,586 (80)	1 -
Landmark Mining Company Inc	8980636	1,194.85	Contour, · Auger	N	4,166,215	0	0	4,166,215 (100)	0
Elmo Greer & Sons LLC	8980645	1.90	Contour	И	54,490	.25	0	51,949 (95)	0
AEP Kentucky Coal LLC	8980668	774.00	Area, Contour, Auger	и	26,457,314	.25	10,628,040	15,829,274 (60)	1

Table 10 - Underground Mines

			Lane	ro - on	dergroun	id lytines			
Company	Permit Number	Acres	Mine Type	AOC Variance (Y/N)	Swelled Overburden (yds ^J)	Predicted Swell Factor	Proposed Overburden Placed in Fills (yds ³)	Proposed Overburden used in Recinmation/Percent (yds²/%)	Number of Fills Proposed
Cumberland Valley Mining Co	8075201	1,356.00	Underground	N	72,000	0	72,000	72,000 (100)	1 .
Appalachian Fuels, LLC	8135024	926.62	Underground	N ,	143,718	.25	28,743	114,975 (80)	2
LWF Leasing LLC	8365407	536.70	Underground, Refuse Storage	У	390	0	0	390 (100)	0
Levisa Fork Mining Co	8365409	589.55	Underground	N	70,271	.25	69,915	70,271 (100)	2
Dekalb Recovery Inc	8365436	41.51	Underground	N	29,496	.20	28,428	29,496 (100)	· L
Harian Reclamation Services LLC	8485411	1,470.69	Underground	И	172,033	.20	4,520	167,513 (97)	0
Sequoia Energy LLC	8485422	457.13	Underground	N	15,813	.25	16,364	16,384 (103)	1
Sequoia Energy LLC	8485423	686.25	Underground	N	23,660	.25	23,660	23,660 (100)	2
Consol of Kentucky Inc	8605255	744.50	Underground	И	30,449	.20	3,381	27,068 (89)	ı
Motts Branch Coal Inc	8605259	63.90	Underground	N	39,893	.25	39,893	39,893 (100)	2
Consol of Kentucky Inc	8605260	645,80	Underground, Contour	N	6,235,534	.25	1,631,192	4,604,342 (74)	2
Chas Coal LLC	8665133	1,112.20	Underground	N	5,833	0	5,833	5,833	1
Harlan Reclamation . Services LLC	8675262	l,779.67	Underground	N	192,667	.20	54,073	138,594 (72)	. 1
Clintwood Elkhorn Mining	8984148	1,578.70	Underground ·	N	29,866	.20	13,083	16,783 (56)	4
Wade Coal LLC	8984197	12.65	Underground	N	19,963	.25	385	19,078 (96)	2
G & S Coal Inc	9185175	126.40	Underground	N	19,883	.20	19,883	19,883 (100)	1

Table 11 - Other Mines

Сопрану	Permit Number	Acres	Mine · Type	AOC Variance (Y/N)	Swelled Overburden (yds ¹)	Predicted Swell Factor	Proposed Overburden Placed in Fills (yds ³)	Proposed Overburden used in Reclamation/Percent (yds²/%)	Number of Fills Proposed
C & C Mining Inc	8488058	13,90	Refuse Recovery	. N	508,200	0	0	2,389 (0.6)	0
Sandlick Coal Company	8488066	6,96	Course Refuse Recovery	И	93,696	0	0	0	0
Harlan Reclamation Services LLC	8677023	41.18	Haul Road	N	0	0	0	. 0	0
Martin County Coal Corp	8809002	131.20	· Refuse Disposal	И	0	0	. 0	0.	0
Leeco Inc	8979004	293.00	Refuse, Contour, Auger	И	0	0	0	0	0
Long Fork Coal Company	8989116	48.56	Refuse Disposal	Ν	0	0	0	0	0
McCoy Elkhorn Coal Corporation	8989117	467.53	Dry Refuse Disposal, Contour, Underground	Y	8,201,986	.25	56,082	4,304,265 (52)	i
Clintwood Elkhorn Mining Company	8989128	6.10	Refuse Recovery	И	52,901	0	0	0	0

APPENDIX A

MEASUREMENTS FROM PONDS TO MINE AREA AND EXCESS SPOIL FILLS

MEASUREMENTS FROM PONDS TO MINE AREA AND EXCESS SPOIL FILLS

* .			*				
PERMITTEE NAME	PERMIT NUMBER	FILL NUMBER	POND NUMBER	POND STATUS	POND TO MINE	POND TO FILL	SEGMENT PERMITTED
GATLIFF COAL COMPANY	5188002	I	2	N	0 .	0	Yes
JAMIESON CONSTRUCTION COMPANY	8070292	1	6	E	300	900	Yes
GATLIFF COAL COMPANY	8070302	1	5	N	0	0	Yes
GATLIFF COAL COMPANY	8070302	2	. 4	N	0	0	Yes
CUMBERLAND VALLEY MINING CO	8075201	1	K	N	300	1,400	Yes
MILLER BROS COAL INC	8130250	F	12	N	75	500	
LESLIE RESOURCES INC	8130255	1	1	N	300	3,000	Yes
LESLIE RESOURCES INC	8130255	10	7	N	200	600	Yes
LESLIE RESOURCES INC	8130255	11	7	N	200		Yes
LESLIE RESOURCES INC	8130255	12	8	N	300	1,000	Yes
LESLIE RESOURCES INC	8130255	12	9			800	Yes
LESLIE RESOURCES INC	8130255			N	300	600	Yes
LESLIE RESOURCES INC		14	10	N	200	600	Yes
LESLIE RESOURCES INC	8130255	15	11	N	. 200	600	Yes
	8130255	16	-11	Ν	200	300	Yes
LESLIE RESOURCES INC	8130255	17	. 12	Ν	300	150	Yes
LESLIE RESOURCES INC	8130255	18	. 13	N	200	200	Yes
LESLIE RESOURCES INC	8130255	19	1	N	300	2,000	Yes
LESLIE RESOURCES INC	8130255	2	1	Ν	300	2,800	Yes
LESLIE RESOURCES INC	8130255	3	. 3	N.	200	300	Yes
LESLIE RESOURCES INC	8130255	4	. 3	N	200	1,200	Yes
LESLIE RESOURCES INC	8130255	. 5	3	N	200	700	Yes
LESLIE RESOURCES INC	8130255	. 6	4	N	300	1,400	Yes
LESLIE RESOURCES INC	8130255	7	5	И	300	1,500	Yes
LESLIE RESOURCES INC	8130255	8	6	N .	100	0	Yes
LESLIE RESOURCES INC	8130255	9	7	N	200	300	Yes
MILLER BROS COAL INC	8130263	, A	S,V,M	E	0	50	Yes
MILLER BROS COAL INC	8130263	В	LL,KK	E	0	50	Yes
MILLER BROS COAL INC	8130263	C	FF,EE	E	0	50	Yes
DEEP WOODS MINING LLC	8130264	1	1	N	200	200	Yes
DEEP WOODS MINING LLC	8130264	10	9	N	350	100	Yes
DEEP WOODS MINING LLC	8130264	11	6	N	350	800	Yes
DEEP WOODS MINING LLC	8130264	12	11	N	250	50	Yes
DEEP WOODS MINING LLC	8130264	13	12	N	250	50	Yes
DEEP WOODS MINING LLC	8130264	14	13 .	N	250	100	Yes
DEEP WOODS MINING LLC	8130264	15	14	N	300	50	_
DEEP WOODS MINING LLC	8130264	16	15	N	250		Yes
DEEP WOODS MINING LLC	8130264	17				50	Yes
DEEP WOODS MINING LLC			16	N	400	50	Yes
DEEP WOODS MINING LLC	8130264	2	2	N	200	400	Yes
	8130264	3	3	N	200	50	Yes
DEEP WOODS MINING LLC	8130264	4	4	N	200	50	Yes
DEEP WOODS MINING LLC	8130264	5	. 3	Ν	200	50	Yes
DEEP WOODS MINING LLC	8130264	6	. 6	N	350	200	Yes
DEEP WOODS MINING LLC	8130264	7	7	Ν	. 350	200	Yes
DEEP WOODS MINING LLC	8130264	8	8	N	300	300	Yes
DEEP WOODS MINING LLC	8130264	9	. 9	N	350	200	Yes
APPALACHIAN FUELS LLC	8135024	1	1	Ν	800	25	Yes
APPALACHIAN FUELS LLC	8135024	2	2	N	600	200	Yes
HIBBARD & RADER LAND CO INC	8260553	. 1	1	Ν	100	50	Yes
REID & SONS CONSTRUCTION	8260575	1	1	N	200	200	Yes
REID & SONS CONSTRUCTION	8260575	2 .	2	N	150	300	Yes
REID & SONS CONSTRUCTION	8260575	3	2	N	150	300	Yes
REID & SONS CONSTRUCTION	8260575	4	3	N	150	100	Yes
REID & SONS CONSTRUCTION	8260575	5	4	N	100	25	Yes
SAND HILL COAL PROCESSING CO	8260586	1		И	100	25	Yes
FRASURE CREEK MINING LLC	8360295	. 1	l	E	1,000	300	
		•		مد	1,000	200	Yes

PERMITTEE NAME	PERMIT NUMBER	FILL NUMBER	POND NUMBER	POND STATUS	POND TO MINE	POND TO FILL	SEGMENT PERMITTED
FRASURE CREEK MINING LLC	8360295	2	7B.8B	И	700	50	Yes
MOTTS BRANCH COAL INC	8360300	1	1	И	200	25	Yes
MOTTS BRANCH COAL INC	8360300	10	8	N	800	150	Yes
MOTTS BRANCH COAL INC	8360300	11	9	N	900	. 25	Yes
MOTTS BRANCH COAL INC	8360300	2	2	N .	300	25 %	Yes
MOTTS BRANCH COAL INC	8360300	3	3	Ν	400	150	Yes
MOTTS BRANCH COAL INC	8360300	4	4.	N	550	25	Yes
MOTTS BRANCH COAL INC	8360300	5	5	N	350	25	Yes
MOTTS BRANCH COAL INC	8360300	7	6	N	300	25	Yes
MOTTS BRANCH COAL INC	8360300	8	7	N	250	25	Yes
MOTTS BRANCH COAL INC	8360300	9	8	N	800	200	Yes .
FRASURE CREEK MINING LLC	8360301	1	1	Ν	450	400	Yes
FRASURE CREEK MINING LLC	8360301	2	2	N	500	300	Yes
FRASURE CREEK MINING LLC	8360301	3	3	N	400	0	Yes
FRASURE CREEK MINING LLC	8360301	4	4	N	350	400	Yes
LEVISA FORK MINING COMPANY	8365409	· I	i	N	0	350	Yes
LEVISA FORK MINING COMPANY	8365409	FA1	2 .	N	100	25	Yes
DEKALB RECOVERY INC	8365436	1	1	N	0	100	Yes
FRASURE CREEK MINING LLC	8365441	3	20	N N	150	100	Yes
APPALACHIAN FUELS LLC	8450073	1	1	N	200	400	Yes
APPALACHIAN FUELS LLC	8450073	10	2	N	150	1,600	Yes
APPALACHIAN FUELS LLC	8450073	11	2	N	150	400	
APPALACHIAN FUELS LLC	8450073	12.	3	N	200	400	Yes
APPALACHIAN FUELS LLC	8450073	13	. 3	N	200	1,200	Yes Yes
APPALACHIAN FUELS LLC	8450073	14	3	N ·	200	1,800	Yes
APPALACHIAN FUELS LLC	8450073	15	3	N	200	600	Yes
APPALACHIAN FUELS LLC	8450073	2	1	N	200	1,000	Yes
APPALACHIAN FUELS LLC	8450073	3	1	N	200	1,200	Yes
APPALACHIAN FUELS LLC	8450073	4	2	N	150	1,600	Yes
APPALACHIAN FUELS LLC	8450073	5	2	N	150	2,200	Yes
APPALACHIAN FUELS LLC	8450073	6	2	N	150	2,600	Yes
APPALACHIAN FUELS LLC	8450073	7	2	N	150	2,600	Yes
APPALACHIAN FUELS LLC	8450073	8	2	N	150	2,100	Yes
APPALACHIAN FUELS LLC	8450073	9	2	N	150	2,200	Yes
NALLY & HAMILTON ENTERPRISES I	8480189	1	2	N	0	1,000	Yes
NALLY & HAMILTON ENTERPRISES I	8480189	2	5	N	300	150	Yes
NALLY & HAMILTON ENTERPRISES I	8480189	3	5	N	0	800	Yes
NALLY & HAMILTON ENTERPRISES I	8480189	4	5	N	. 0	2,600	Yes
CLOVERFORK MINING & EXCAVATING	8480222	1	3	N	100	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	2	4	N	200	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	3	6	N	300	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	4	7	N	400	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	5	10	N	100	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	6	11	N .	150	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	7	12	N	100	25	Yes
CLOVERFORK MINING & EXCAVATING	8480222	. 8	13	N	150	25	Yes
EVANS COAL CORPORATION	8480223	1	13	N	400	400	
EVANS COAL CORPORATION	8480223	2		N		795	Yes
EVANS COAL CORPORATION	8480223	3	4		500	400	Yes
EVANS COAL CORPORATION	8480223	4		N	550	600	Yes
EVANS COAL CORPORATION		1 5	6	N	650	800	Yes
LONE MOUNTAIN PROCESSING INC	8480223		6	N	650	600	Yes
the contract of the contract o	8485353	2	2	N	600	100	Yes
DEBRA LYNN COALS INC	8485410	1	4	N	200	100	Yes
SEQUOIA ENERGY LLC	8485422	1	1 ,	N	0	0	Yes
SEQUOIA ENERGY LLC	8485423	1	1	N.	150	150	Yes
SEQUOIA ENERGY LLC	8485423	2	1 -	N	150	300	Yes
UNITED FARMING INC	8550169	3	7.	N	200	001	Yes
UNITED FARMING INC UNITED FARMING INC	8550169 8550160	4	7	N	200	200	Yes
CHILD LAMMING INC	8550169	- 5	8	И	200	25	Yes

SINTED FARMING INC	, PERMITTEE NAME	PERMIT NUMBER	FILL NUMBER	POND NUMBER	POND STATUS	POND TO MINE	POND TO FILL	SEGMENT PERMITTED
STURCES NATIONS COME AND INC. \$350171	UNITED FARMING INC	8550169	6	7	И	200	1.800	Yes
UNITED FARMING INC	STURGEON MINING COMPANY INC	8550170	1	1	И	300	200	
INTERD FARMING INC	UNITED FARMING INC	8550171	1	I	Ν	300	750	
DANCAL INC \$590172 \$10000 \$10000 \$10000 \$10000 \$10000 \$10000 \$100000 \$100000000	UNITED FARMING INC	8550171	. 2	2	Ν	400	500	
MINE RITE COAL COINC	DANCOAL INC	8580171	l	I	Ν	300	200	
MINER BITS COAL CO INC	DANCOAL INC	8580171	2	5	И	0	600	
MINISTRE COAL CO INC \$890172 2 2 N \$600 \$400 Yes	MINE RITE COAL CO INC	8580172	1	L	Ν	300	200	
JOHNSON-FLOVE COAL COMPANY LLC	MINE RITE COAL CO INC	8580172	2	2	. N	600	400	
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JAMIESON CONSTRUCTION COMPANY 8610471 5 4 E 200 1,300 No JAMIESON CONSTRUCTION COMPANY 8610471 6 4 E 200 1,900 No JAMIESON CONSTRUCTION COMPANY 8610471 7 4 E 200 450 No IKERD COAL COMPANY LLC 8610474 1 14 N 300 300 Yes IKERD COAL COMPANY LLC 8610474 2 9 N 1,000 500 Yes RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes		8610471		3		150	50	No
JAMIESON CONSTRUCTION COMPANY 8610471 6 4 E 200 1,900 No JAMIESON CONSTRUCTION COMPANY 8610471 7 4 E 200 450 No IKERD COAL COMPANY LLC 8610474 1 14 N 300 300 Yes IKERD COAL COMPANY LLC 8610474 2 9 N 1,000 500 Yes RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes		8610471		4	Е	200	250	No
JAMIESON CONSTRUCTION COMPANY 8610471 7 4 E 200 450 No IKERD COAL COMPANY LLC 8610474 1 14 N 300 300 Yes IKERD COAL COMPANY LLC 8610474 2 9 N 1,000 500 Yes RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes		8610471	5	4	Ē	200	1,300	No
IKERD COAL COMPANY LLC 8610474 1 14 N 300 300 Yes IKERD COAL COMPANY LLC 8610474 2 9 N 1,000 500 Yes RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes	JAMIESON CONSTRUCTION COMPANY	8610471	6	. 4	E	200	1,900	No
IKERD COAL COMPANY LLC 8610474 2 9 N 1,000 500 Yes RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes	JAMIESON CONSTRUCTION COMPANY	8610471	. 7	4	E	200	450	No
RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes	IKERD COAL COMPANY LLC	8610474	l	14	N	300	300	Yes
RUBY COAL COMPANY OF LONDON IN 8630281 1 1 N 100 50 Yes	IKERD COAL COMPANY LLC	8610474	2	9	N .	1,000	500	Yes
JAMIESON CONSTRUCTION COMPANY 8630290 I I I N 25 25 Yes		8630281	1	1 .	N	100	50	Yes
	JAMIESON CONSTRUCTION COMPANY	8630290	1	1	N v	25	25	Yes

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PERMITTEE NAME	PERMIT NUMBER	FILL NUMBER	POND NUMBER	POND STATUS	POND TO MINE	POND TO FILL	SEGMENT
JAMIESON CONSTRUCTION COMPANY	8630290	2	1	N	50	50	PERMITTE Yes
B & C ENERGY INC	8640160	1	1	И	100	50	Yes
B & C ENERGY INC	8640160	2	2 .	N	50	50	Yes
B & C ENERGY INC	8640160	3	3	N	150	. 100	Yes
3 & C ENERGY INC	8640160	4	4	N.	001	50	Yes
3 & C ENERGY INC	8640160	5	5	N	150	50	Yes
3 & C ENERGY INC	8640160	. 6	6	. N	150	50	Yes
3 & C ENERGY INC	8640160	7	7	Ν	100	50	Yes
CHAS COAL LLC	8665133	I .	257	E	600	1,200	Yes
PREMIER ELKHORN COAL COMPANY	8670371	1	1	E	400	150	Yes
PREMIER ELKHORN COAL COMPANY	8670371	4	31	E	450	100	Yes
PREMIER ELKHORN COAL COMPANY	8670371	5	4	E ·	200	50	Yes
PREMIER ELKHORN COAL COMPANY	8670371	6	4	E	200	1,100	Yes
PREMIER ELKHORN COAL COMPANY	8670371	7	4	E	200	1,400	Yes
CONSOL OF KENTUCKY INC	8670404	3	5	N	600	200	Yes
CONSOL OF KENTUCKY INC	8670404	4	1	E	0	2,800	Yes
CONSOL OF KENTUCKY INC	8670404	5	20	E	0	2,200	Yes
CONSOL OF KENTUCKY INC	8670404	6	6	N N	600	1.00	Yes
PREMIER ELKHORN COAL COMPANY	8670426	lA	1	Ē	200	900	Yes
PREMIER ELKHORN COAL COMPANY	8670426	6	8	E	0	500	Yes
CUMBERLAND RIVER COAL COMPANY	8670433	3	3	N	600	800	Yes
CUMBERLAND RIVER COAL COMPANY	8670433	4	10	N	300	50	Yes
CUMBERLAND RIVER COAL COMPANY	8670433	5,6,7	G, IA	N	2,000	1,200	Yes
CUMBERLAND RIVER COAL COMPANY	8670433	6	1A	N	2,100	800	Yes
CUMBERLAND RIVER COAL COMPANY	8670433	.7	. 7	Ν	200	25	Yes
PREMIER ELKHORN COAL COMPANY	8670438	1	1	N	100	400	Yes
PREMIER ELKHORN COAL COMPANY	8670438	RF1	1	N :	100	500	Yes
CONSOL OF KENTUCKY INC	8675192	. 2	2 .	N	500	800	Yes
PREMIER ELKHORN COAL COMPANY	8675237	5	5	N	450	150	Yes
PREMIER ELKHORN COAL COMPANY	8675237	6	. 4	N	100	50	Yes
PREMIER ELKHORN COAL COMPANY	8675237	TF1	1	E	500	400	Yes
COASTAL COAL COMPANY LLC	8675259	FACE	2	E	50	50	Yes
COASTAL COAL COMPANY LLC	8675259	HF2	4	N	400	300	Yes
HARLAN RECLAMATION SERVICES LL	8675262	1	1	N	300	. 0	Yes
LICKING RIVER RESOURCES INC	8770164	1	1	N	200	450	Yes
LICKING RIVER RESOURCES INC	8770164	2	1	Ν	200	600	Yes
LICKING RIVER RESOURCES INC	8770164	3	2	И	150	600	Yes
LICKING RIVER RESOURCES INC	8770164	4	2	Ν	150	2,100	Yes
LICKING RIVER RESOURCES INC	8770164	5	·. 2	N	150	400	Yes
MARTIN COUNTY COAL CORPORATION	8800018	23	23A	N	1,200	400	No
CZAR COAL CORPORATION	8800117	5A	. 1	E	100	1,200	Yes
CZAR COAL CORPORATION	8800143	1.	4	N	250.	25	Yes
CZAR COAL CORPORATION	8800143	2	3	Ν	250	100	Yes
CZAR COAL CORPORATION	8800143	3	5	N	350	25	Yes
CZAR COAL CORPORATION	8800143	4	2	Ν	250	50	Yes
CZAR COAL CORPORATION	8800143	5	2	Ν	250	600	Yes
CZAR COAL CORPORATION	8800143	6 .	2	N	250	200	Yes
CZAR COAL CORPORATION	8800143	7	1	N .	250	25	Yes
CZAR COAL CORPORATION	8800143	8	7	N	200	25	Yes
CZAR COAL CORPORATION	8800143	. 9	6	N	250	25	Yes
MARTIN COUNTY COAL CORPORATION	8800149	: 1	1	И	400	25	Yes
MARTIN COUNTY COAL CORPORATION	8800149	2	2	N	400	25	Yes
MILLER BROS COAL INC	8800149	1	1	N	400	500	Yes Yes
MILLER BROS COAL INC	8800153	2	. 1	N	400	150	
MILLER BROS COAL INC	8800153	3	2	N	350	50	Yes
MILLER BROS COAL INC	8800153	4	3	N	500	100	Yes
MILLER BROS COAL INC	8800153	5	3 5	N	300		Yes
MILLER BROS COAL INC	8800153	6	6	И	200	100	Yes
MILLER BROS COAL INC	8800153	7	0	IN .	350	.200	Yes

PERMITTEE NAME	PERMIT NUMBER	FILL NUMBER	POND NUMBER	POND STATUS	POND TO MINE	POND TO FILL	SEGMENT PERMITTED
MILLER BROS COAL INC	8800153	8	BS8	N	100	0	Yes
MILLER BROS COAL INC	8800153	9	4	Ν	200	500	Yes
MILLER BROS COAL INC	8800153	BFA.	BS1	N	0	. 0	Yes
MILLER BROS COAL INC	8800153	BFB	BSM	N	0	0	Yes
MILLER BROS COAL INC	8800153	BFC	BSW	N.	0	0 .	Yes
MILLER BROS COAL INC	8800153	D	7	Ε	300	1,200	Yes
STURGEON MINING COMPANY INC	8950118	12	. 15	N	150	50	Yes
STURGEON MINING COMPANY INC	8950118	13	14	Ŋ	150	150	Yes
STURGEON MINING COMPANY INC	8950118	14	16	Ŋ.	500	600	Yes
T & T COAL INC	8950148	1	I	, N	150	250	Yes
T & T COAL INC	8950148	10	9	N	600	1,800	Yes
T & T COAL INC	8950148	11	10	N	400	300	Yes
T & T COAL INC	8950148	12	11	N .	400	1,600	Yes
T & T COAL INC	8950148	13	11	N	400	1,300	Yes
T & T COAL INC	8950148	14	11	N	400	1,200	Yes
T & T COAL INC	8950148	15	12	N	1,000	1,300	Yes
T & T COAL INC	8950148	16	12	N	1,000	1,100	Yes
T & T COAL INC	8950148	17	. 12	N	1,000	1,200	Yes
T & T COAL INC	8950148		2	. N	200	800	Yes
T & T COAL INC	8950148	3	3	N	400	1,000	Yes
T & T COAL INC	8950148	4	3 .	N	400	1,600	Yes
T & T COAL INC	8950148	5	3	N	400	1,400	Yes
T & T COAL INC	8950148	6	3	N	400	700	Yes
T & T COAL INC	8950148	7	8	Ν	400	800	Yes
T & T COAL INC	8950148	8	9	N	600	1,350	Yes
T & T COAL INC	8950148	9	9 .	N	600	1,600	Yes
BOTNER ENTERPRISES	8950149	1	1	N	50	50	Yes
BOTNER ENTERPRISES	8950149	2	I	N	50	. 100	Yes
BOTNER ENTERPRISES	8950151	. 1	. 1	N	. 200	200	Yes
BOTNER ENTERPRISES	8950151	2	. 1	N	200	100 .	Yes
BOTNER ENTERPRISES	8950151	3	1	N	200	50	Yes
LESLIE RESOURCES INC	8970346	3	7	· E	300	600	Yes
LESLIE RESOURCES INC	8970346	4	6 ·	E	100	50	Yes
LESLIE RESOURCES INC	8970346	5	3	E	150	100	Yes
LOCUST GROVE INC	8970416	A6	6	N	200	150	Yes
LOCUST GROVE INC	8970416	OBS	26,27	E	0	0	Yes
LESLIE RESOURCES INC	8970423	2	2	N	1,400	300	Yes
LESLIE RESOURCES INC	8970423	3	3	· N	700	600	Yes
LESLIE RESOURCES INC	8970423	4	4	N	500	250	Yes
LESLIE RESOURCES INC	8970423	. 5	5	N	1,250	500	Yes
PERRY LAND AND DEVELOPMENT INC	8970429	1	I	N	300	50	Yes .
PERRY LAND AND DEVELOPMENT INC	8970429	. 2	2	N _.	400	200	Yes
PERRY LAND AND DEVELOPMENT INC	8970429	5	2	N	400	2,800	Yes
CANDLE RIDGE MINING INC	8970430	10	7	N	150	. 250	Yes
CANDLE RIDGE MINING INC	8970430	11	7 .	N	150	250	Yes
CANDLE RIDGE MINING INC	8970430	12	7	N	150	600	Yes
CANDLE RIDGE MINING INC	8970430	13	6	И	0	1,400	Yes
CANDLE RIDGE MINING INC	8970430	14	6	И	0	500	Yes
CANDLE RIDGE MINING INC	8970430	15	7	N	150	850	Yes
CANDLE RIDGE MINING INC	8970430	16	7	N	150	1,200	Yes
CANDLE RIDGE MINING INC	8970432	10	6	N	250	100	Yes
COASTAL COAL COMPANY LLC	8975103	1	I	Е	0	25	Yes
COASTAL COAL COMPANY LLC	8975104	I	I	E	0	50	Yes
PREMIER ELKHORN COAL COMPANY	8980378	14	1	E	400	600	Yes
SIDNEY COAL COMPANY INC	8980573	2	TBE2	E	001	. 0	Yes
SIDNEY COAL COMPANY INC	8980573	5	BCD3	И	250	400	Yes
SIDNEY COAL COMPANY INC	8980573	6.	BCD3	И	250	500	Yes
SIDNEY COAL COMPANY INC	8980573	7	BCE2	N	400	. 0	Yes
APEX ENERGY INC	8980604	12	6	E	50	1,200	Yes

PERMITTEE NAME	PERMIT NUMBER	FILL NUMBER	POND NUMBER	POND STATUS	POND TO MINE	POND TO FILL	SEGMENT PERMITTED
CAMBRAIN COAL CORPORATION	8980619	6	28	N	400	0	Yes
AEP KENTUCKY COAL LLC	8980630	. 1,1A	2	И	0	50	Yes
AEP KENTUCKY COAL LLC	8980647	2B	63	E.	50	800	Yes
AEP KENTUCKY COAL LLC	8980647	9	45	E	150	1,400	Yes
AEP KENTUCKY COAL LLC	8980668	1	1	N	500	1,000	Yes
AEP KENTUCKY COAL LLC	8980668	2	1	И	500	1,600	Yes
AEP KENTUCKY COAL LLC .	8980668	3	1	И	500	1,600	Yes
AEP KENTUCKY COAL LLC	8980668	4	2	Ν	200	25	Yes
BEAR FORK RESOURCES LLC	8980674	1	55	N	400	100	Yes
BEAR FORK RESOURCES LLC	8980674	2	55	N	400	1,100	Yes
BEAR FORK RESOURCES LLC	8980674	3	54	N	700 .	200	Yes
BEAR FORK RESOURCES LLC	8980674	4	54	N	700	600	Yes
BEAR FORK RESOURCES LLC	8980674	5	51	N	200	100	Yes
BEAR FORK RESOURCES LLC	8980674	6	56	И	350	900	Yes
BEAR FORK RESOURCES LLC	8980674	7	58	Ν	0	100	Yes
ROAD FORK DEVELOPMENT CO INC	8984147	6	28	Ν	50	200	Yes
CLINTWOOD ELKHORN MINING CO	8984148	1	. 1	Ν	0	100	Yes
CLINTWOOD ELKHORN MINING CO	8984148	. • 2	2	N	100	. 300.	Yes
CLINTWOOD ELKHORN MINING CO	8984148	3	3	N	50 [.]	50	Yes
CLINTWOOD ELKHORN MINING CO	8984148	4	3	N	50	250	Yes
AEP KENTUCKY COAL LLC	. 8984162	.4	3	E	0	1,000	Yes
WADE COAL LLC	8984197	1	2	N	200	25	Yes
WADE COAL LLC	8984197	BF2	1	. N	25	350	Yes
MCCOY ELKHORN COAL CORPORATION	8989117	2	2	N	350	50	Yes
G & S COAL INC	9185175	BF1	1	N	600	0	Yes

Appendix F

MSHA-Class Impoundment Inventory

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Site Status: A - Active IN - Inactive

NS - Not Started

PP - Pending Permit AB - Abandoned RC - Reclaimed RM - Remined

IN - Inactive

Site Status: A - Active NS - Not Started PP - Pending Permit AB - Abandoned RC - Reclaimed RM - Remined

	Permittee	Permit		OSM Site & MSHA Risk	Site				Previous Breakthroughs
	(Impoundment Name)	Number	MSHA Number	=	IIS	Type	ead	Site Conditions	(Date)
7	Cook & Sons (Clay Hollow Impoundment)	867-8047	KY06-00277-01	A - H/I/H/5 C - D -	A	Slurry	Elk #3 = (V=-80, H=0) VH=307 Amburey = Not UG mined Whitesburg = Above approved pool	Active, impounding water.	No
<u></u> ∞	Premier Elkhorn Coal Co (Enterprise Impoundment)	8608-808	KY06-00266-02	B - H//H/5	Z	Slurry	ved pool	Inactive since 1998. Prep plant removed 10/10. Impounding a small amount of water. Elk#2 ~10' above present pool level.	Yes - 06/99, Discharge through underdrain
6	Long Fork Coal Co (Long Fork Slurry Impoundment)	898-8068	KY06-00017-01	A - B/I/H/3 A or C	A	Slurry	Williamson = (V=-45', H=0') VH=437' Pond Cr = (V=-330', H=0') VH=697'	Active, impounding water. MSHA may require grouting of Williamson seam.	Yes, Pre-law
10	AEP Ky Coal, LLC (Rob Fork Impoundment)	898-9087	KY06-00111-02	B - A/I/H/1 A or C	A	Slurry.	Slurry EIk #2 = (V=0', H=0') VH=7' Lower EIk = (V=0', H=66') VH=177'	Active, impounding water. Seep located off right abutment.	No
=	Using Ground Hog Impoundment)	898-0628	KY06-00231-02	A - E/II/M/4 XX D	Ą	Slurry	Elk #3 = (V=150', H=90') VH=103' Elk #1 = Stripped no UG mine Pond Cr = No UG mine, beneath impoundment required on right side.	ater.	o X
12	Beech Fork Processing Inc (Lackey Branch Impoundment)	858-9000	KY06-00281-02	C- B - VII/M/5 D -	Ą	Slurry	Haddix = (V=32, H=500') VH=75' Coalburg = (V=0', H=0') Within approved pool Stockton = Above approved pool	Active, impounding water.	Nο
13	Czar Coal Corporation (Big Hollow Impoundment)	880-8002	KY06-00034-01	A - C/II/M/1	A	Slurry	Stockton = (V=-120', H=0') VH=127' No other works within pool		No
14			KY06-00327-01	A - D/II/H/4	N	Slurry	Pond Cr = (V=0', H=0) VH=141' House coal bank within pool	Inactive 04/02. Extensive UG works around both sides of impoundment:	ON
								-	

OSM Site Classification:

IN - Inactive

Site Status: A - Active

NS - Not Started
PP - Pending Permit
AB - Abandoned
RC - Reclaimed
RM - Remined

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Previous	Breakthroughs (Date)	No.	25			No					Ŋo		:	٠		No		No				•	Yes, two prior	released thru #7	coal seam in 1989	& 1991. Sinkhole	developed. All	openings not	round.
	Site Conditions	Active impounding water	real of missing mater.			Inactive 07/02. Small fire	extinguished on site.	Seepage in 1st lift. No	instability noted. Water has	been drawn down.	Active, impounding small	drain Harlan saom has gools	Seenage harrier in nlace	MSHA disapproved	breakthrough plan.	Active, impounding water.		Inactive since 1995.	Impounding water. Seepage	barrier of unknown thickness	above Coalburg seam.		Inactive since 1997.	Impounding water.			-		
	Coal Seam (Outcrop Barrier) Head	Pond Cr = $(V=-230', H=0') VH=756'$	Thacker = Within approved pool. Not mined.	Peach Och = Above approved pool		Haz $\#4 = (V=-100', H=0') VH=285'$	Haz #7 = (V=0', H=0') (Stripped & augered to	be sealed) (Within approved pool)	Haz $#8 = Above$ approved pool		Pathfork = $(V=-80', H=200') VH=290'$ Harlan = $(V=0', H=0') VH=60'$	Inner Harlan = $(V=0)^{-1}$ WH=28'	(10,11,0) William (10,11,0)			Pond $Cr = (V=-240', H=0') VH=310'$ No other works within rood	NO OLICE WOLKS WILLING POOL.		=37'	Stockton = Above approved pool			Haz $\#7 = (V=0', H=0')$ VH=87' (Openings in	(lood	Haz #8 = Contour mined, no UG. Within	approved pool.			
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Type	Slurry	,			Slurry			·		Slurry					Slurry		Slurry					Slurry						
Site	Status	Ą				Z					Ą			-		A		<u>Z</u>					Z						
OSM Site & MSHA Risk	Classification	A - J/I/L/5	A or B -	D-		A - A/I/H/1,2,3	В-		<u>a</u>		D - A -A/II/H/1 3.4	В-				A - F/I/L/1		<u>.</u> ک	A - B/II/H/3	D-			A - D/II/H/4		<u>-</u>				
	MSHA Number	KY06-00197-02				KY07-07066-02					KY07-07010-04					KY06-00142-01		KY06-00051-04			•		KY07-07046-03						
Permit	Number	8915-868				807-8041				~	848-8045					898-9110	0000	880-8008					908-269		-				
Permittee		-	(Sidney Impoundment)		7		(Little Camp Branch Sturry Imp)			* 0	Manalapan Mining Co., Inc (Beartree Branch Slurry Imp)					M.C. Mining Inc (Scott's Branch Impoundment)	T	reter Cave Milling/W011 Creek	Collection Description 1	(nony branch impoundment)				(riarris Branch Sturry Imp)					
		15			-	9				1.7	<u> </u>					<u>~</u>	10					6	707						

A - Active

Site Status:

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RM - Remined

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	Permittee	Permit		OSM Site & MSHA Risk	Site				Previous Breakthroughs
	(Impoundment Name)	Number	MSHA Number	Classification	ST	Type	Coal Seam (Outcrop Barrier) Head	Site Conditions	(Date)
21	Manalapan Mining Co., Inc (Abner Fork Slurry Impoundment)	648-8003	KY07-07011-10	A - J/J/L/5 A or C - D -	A	Slurry	Harlan = (V=-155', H=0') VH=671' Darby = (V=-300', H=0') VH=471' Wallins = Above approved pool	Active, impounding a small amount of water. Wick drain. Nearing completion.	No
22	Jericol Mining Inc (Louder Creek Slurry Imp)	648-8001	KY07-07015-06	A - A - A/II/H/1,4	Z	Slurry	Kellioka = (V=-170', H=400') VH=250' Darby = (V=-70', H=115') VH=150' No seams in pool.	Inactive since 1989. Impounding water at upper end.	°Z
23	Bledsoe Coal Corporation (Stonecoal II Impoundment)	866-0256	KY07-07095-03	РР, С D	A	Slurry	Haz #4 = 400' below. Permitted but not mined. Proposed Impoundment Haz # 7 & #8 Within approved pool. Permitted to be contoured.	Proposed Impoundment	
24	Levisa Fork Mining Company (Bear Branch Impoundment)	864-9001	KY06-00385-01	A -	¥.	Slurry 1	Peach Orch = (V=180', H=200') Within pool area	New impoundment. Small seep on 1st lift of right abutment.	
25	Leslie Resources Inc (Left Fork Slurry Impoundment)	9006-998	KY07-07058-09	A - D/II/L/5	<u>z</u>	Slurry	Haz #4 Rider = (V=-130', H=0') VH=180'	Inactive since 1989. Impounding water.	No
26	BDCC Holding Co., Inc (Lick Fork Slurry Impoundment)	897-5048	KY07-00028-07	A - D/I/H/4	RM	Slurry	Leatherwood = (V=-25', H=0')	Overpermitted and remined. Embankment removed. MSHA removed from inventory.	No
27	Leeco, Inc. (Right Fork Impoundment)	897-9004	KY07-07103-05	PP, A -	dd	Slurry	Haz #4 = (V=50', H=0') VH=363'	Proposed Impoundment	
28	Diamond May Coal Co (Brushy Fork Slurry Impoundment)	860-9002	KY07-07073-02	A - <i>C/I/M/</i> 1,3,4 D -	Ą	Slurry	Haz #4 = (V=-200', H=0') VH=311' Haz #5 = Contoured mine. Within approved pool Haz #7 = (V=0', H=0') Within approved pool	Active, impounding water.	No

OSM Site Classification:

PP - Pending Permit AB - Abandoned RC - Reclaimed RM - Remined Site Status: A - Active IN - Inactive NS - Not Started

		-							
		***************************************			,	on the son			Previous
	Permittee	Permit							Breakthroughs
		Number	MSHA Number	a	Status			Site Conditions	(Date)
7	29 FCDC Coal Inc	836-8041	KY06-00002-02	A - D/III/H/4	Ą	Slurry	Elk #2 = (V=0', H=0') VH=97' Openings in	Active, impounding water.	Yes, 1990.
	(Buller Branch Impoundment)	-						Seep located on left side of	
				D-			Elk #3 = Contour mine. $VH=52$ ' Elk e	embankment. #2 covered by	
							#1 = (V=-10', H-300') VH=136'	coarse refuse on right side	
								(old break through area). Elk	
							***	#1 permitted to be UG under	
							8	836-5336.	
30		480-0046	KY06-00143-04	A - D/I/H/4	골	Slurry Cells	Coalburg = (V=10', H=130') VH=87' Ir	Inactive since 2000. Cells 99% full	No
3	1 Straight Creek Coal Resource	866-5047	KY07-07087-01	A -	Ą	Slurry	Haz $\#4A = (V=-200', H=0') VH=232'$	npounding water	No
	(Lovely Branch Impoundment)			D					
. 32		866-0236	KY07-07049-05	A - C/I/M/1,3,4	Ą	Slurry	62'	ling five to	No
				.			Haz #7 = Above approved pool	eight feet water,	
33		2006-298	KY06-00110-01	A -	A	Slurry	=293'		No
	(Mill Creek Impoundment)			<u>-</u>			Elk #4 = Above approved pool	All stages above IV were	
								downstream construction.	-
ന്	34 Consol of Kentucky, Inc	0006-098	KY07-07108-01	D-	A	Slurry		Active, impounding water.	No
	(Four Mile Branch Impoundment)			A - B -			Elk #3 = (V=-110', H=400') VH=313' Haz #4 = (V=60', H=120') within annroved		-
	-						pool. Augered. Pillared.		
35		0008-688	KY10-08001-01	A - D/I/H/4	Z	Slurry #	#9 = (V=-60', H=0') VH=100'	Inactive since 1991.	Yes, 1985
	(River Queen Slurry)						<u>11</u>	Impounding water. Prep	•
	-	1					l d	plant removed.	
36	-	854-8011	KY10-08042-01	A - E/II/M/4	Z	Slurry #			No
	Kesources					T**		Impounding water, Decant	
	(Mark Energy)					-	#12 = $(V=-52', H=0') VH=52'$	leaking, AMD site. Extent	
							Ō	of UG unknown.	

OSM Site Classification:

Site Status: A - Active

IN - Inactive

NS - Not Started PP - Pending Permit AB - Abandoned RC - Reclaimed RM - Remined

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Previous Breakthroughs	(Date)	No	No	No			No		No		No		No No	No			No			No		No	
	Site Conditions	Impoundment dewatered and No slurry being mined.	Near capacity.	Inactive. Prep plant partially No	removed. Two seeps.	Seepage barrier on the Winifred seam.	Inactive, Prep plant partially	removed. Not impounding water.	Active, impounding water.		Inactive since 1992. Impounding water.	g	Reclaimed, impounding water.	Active, impounding water.			Active, impounding water.	upstream, downstream,	centerline.	Active, impounding water.			Impounding water.
	Coal Seam (Outcrop Barrier) Head	Lower Elkhorn = (V=0', H=0') VH=41'	No underground works associated with pool or pool perimeter.	Thacker = (V=-140', H=0') VH=334'	Winifred = $(V=0', H=0')$ within approved pool.		Slurry Thacker = (V=-154', H=0') VH=166'	Winifred = $(V=0', H=0')$ within approved pool.	Jellico = (V=-190', H=0') VH=308'	Blue Gem = $(V=-333', H=0') VH=451'$	Leatherwood = (V=-185', H=0') VH=293'		Slurry Pond Creek = (V=-180', H=0') VH=328'	Glamolgan = Not Mined	Lower Elkhorn = $(V=200^{\circ}, H=2,000) \text{ VH}=0^{\circ}$	EIKHOIH #2 — (11—400) WIIIIII APPIOYCU POOL	Hazard #4R = (V=-200', H=0') VH=440' Hazard #4 = (V=-1173' H=0') VH=413'	Copeland = $(V=-40', H=0')$ VH=280'		Hazard $#4 = (V=-60', H=0') VH=131'$		d works associated with pool or	pool perimeter.
 	Type	Slurry	Slurry	Slurry			Slurry		Slurry	,	Slurry		Slurry	Slurry			 Slurry			Fresh	water	Slurry	
Site	Status	RM	Ą	Z			Z		A		Z		RC	A			. Y			Z.		Z	
OSM Site & MSHA Risk	Classification	A - D/III/H/4		A - E/III/M/4	В-		A -	В-	A - F/I/L/1,3,4	A -	A - I/I/M/1,5		A - F/I/L/2	D-	C - F/I/L/2	- -	A - J/I/L/5 A -	-1		A -			
	MSHA Number	KY06-00071-02	KY06-00059-01	KY06-00246-01			898-9127 KY06-00246-02		KY07-07042-01		KY07-07063-02		KY06-00010-03	KY06-00373-01		. •	KY07-07051-03			KY07-07102-01		874-9005 KY07-07050-11	
Permit	Number	5050-868	8065-868	898-9127		•	898-9127		918-5001		848-8040		898-9074	898-9072			8008-998	4.		866-0237		874-9005	
Permittee	(Impoundment Name)	Sunny Ridge Mining Co., Inc (Bear Hollow Impoundment)	Chisholm Coal Dotson Fork Impoundment)	Sidney Coal Co.	(Millstone Branch Impoundment)		40 Sidney Coal Co.	(Millstone Branch II Imp)	Gatliff Coal Company	(Bennetts Branch Slurry Imp)	Bledsoe Coal Corporation (Gabes Creek Shirry Imp)	-	Stone Mining Co (Grant's Branch Impoundment)	Premier Elkhorn Coal Co	(Burke Branch Impoundment)		Bledsoe Coal Corporation	(diant vittle State) timp)		-	(Kobin Branch Dam)	Roadside Processing, Inc	(Copperas Fork Imp)
		37	38	39			40		41		45		43	44			45			46		47	

OSM Site Classification:

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Permitter Perm		Previous	Breakthronghe	Date)	(2)					٠.				•															
Pernittee Pernit		- d	<u> </u>	<u> </u>	Ī		J ₂	}	T		T		No		ž		Ž	-		8	ઝ	Ž	:	8		2			
Permitte				Site Conditions			Inactive since 1998.	Impounding water.	Active, currently used as	sediment pond.	Active, currently used as	sediment pond.		Completely dry.	Inactive since 1994.	Completely dry.	Inactive since 1994	Completely dry. Capped	sealed.	Inactive since 1994.	Completely dry. Capped	Active, being remined	9	Active, completely dry.	•	Active, completely dry.		Active, impoundment full	
Permittee		30		Coal Seam (Outcrop Barrier) Head	No underground works associated with pool or	pool perimeter.	Stearns $11/2 = (V=-560', H=0') VH=554'$		No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter.		No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter.	No underground works associated with pool or	pool perimeter,	Pond Creek = (V=-130', H=0') VH=405'	A A A A
Permitter	100			Type	Fresh	Water	Fresh	Water	Fresh	Water	Fresh	Water	Slurry		Slurry						•			T^{-}					•
Permittee			Site	Status	Z		Z		4		4																	,	
Permittee Permit							- J																	7					
Permittee (Impoundment Name) Roadside Processing, Inc (No. 2 FW Dam) Southfork Coal Company (Justus Dam) CH Development, LLC (Freshwater Pond) CH Development, LLC (Module No. 1) CH Development, LLC (Module No. 2) CH Development, LLC (Module No. 3) CH Development, LLC (Module No. 3) CH Development, LLC (Module No. 3) CH Development, LLC (Module No. 5) CH Development, LLC (Module No. 5) CH Development, LLC (Module No. 6) CH Development, LLC (Module No. 6) CH Development, LLC (Module No. 7) McCoy Elkhorn Coal Corp				MSHA Number	KY07-07050-07		KY07-07013-03		KY07-07012-01		KY07-07012-02		KY07-07012-05		KY07-07012-06		KY07-07012-07	-		KY07-07012-08		KY07-07012-10		KY07-07012-11		KY07-07012-12		KY06-00196-05	
			Permit	Number	874-8003		874-8004		861-8011		861-8011		861-8011		861-8011		861-8011			861-8011		861-8011		1108-198		861-8011	0.00	898-9012	
55 55 55 55 55 55 55 55 55 55 55 55 55		c.	Permittee		48 Roadside Processing, Inc		49 Southfork Coal Company	-						-		_		(Module No. 3)			(Modiffe No. 4)	56 CH Development, LLC	(Module No. 5)	CH Development, LLC		58 CH Development, LLC		_	TO A TOTAL OF THE PERSON OF TH

Site Status: A - Active

IN - Inactive NS - Not Started PP - Pending Permit

AB - Abandoned RC - Reclaimed RM - Remined

								
Previous Breakthroughs (Date) No	No No	No.			No	No	No	No
Site Conditions Active, impounding water	Active, impounding very little water Active, impounding water.	Active, impounding water.	Seep in embankment.		Active, impounding water.	Inactive, impounding water. Silt control for entire permit. Berm blocks emergency spillway water from old opening. AMD site.	Inactive since 1990. Not impounding water. MSHA reclassified as Dry Refuse Fill.	Inactive since 1990. Not impounding water. Crest at 1379.
Coal Seam (Outcrop Barrier) Head Hazard #4 = Not Mined Hazard #8 = (V=0', H=0') Within approved	Straight Creek = $(V-340', H=0')$ VH=350' Poplar Lick = $(V=0', H=0')$ within approved	pool Buckeye Springs = $(V=-120', H=0')$ Hazard #9 = $(H=100')$ Above approved pool.	Francis #8 = $(V=0', H=0')$ within approved proposed $(V=0', H=0')$ within approved $(V=0', H=0')$ within approxed $(V=0', $	Hazard #7 = (V=0, H=0) VH=2.5 Hazard #5A = (V=0', H=0') VH=124' Hazard #4 = (V=-330', H=0') VH=474'	No underground works associated with pool or Active, impounding water.	Hazard #7 = (V=0', H=0')	Hazard #7 = (V=0', H=0')	Hazard #7 = (V=0', H=0') located under crest at Inactive since 1990. Not the right abutment Inapounding water. Crest 1379.
Type	Slurry	Slurry			Fresh Water	Fresh Water	Slurry	Slurry
Site Status A	A	A		·	A	A	Z	Z
OSM Site & MSHA Risk Classification D -	A - A - A/II/H/1,4	D-	A -	A - A - J///L/5 A -				
MSHA Number KY07-07145-01	KY07-07004-02 KY07-07039-04	KY07-07044-09			KY07-07082-01	KY07-07046-01	KY07-07046-02	KY07-07046-03
Permit Number 407-8004	807-8029	897-9005			897-0011	697-8005	697-8005	697-8005
Permitte (Impoundment Name) Straight Creek Coal Resource (Stoney Fork Impoundment)	Left Fork Mining Inc (Arjay Impoundment) Bell County Coal Corporation	(Coppers Fork Impoundment) Whitaker Coal Corporation	(Four Seam Slurry Imp)		Pine Branch Coal Sales, Inc (Dam No. 5N)	Buckhorn Processing Co (Sediment Dam)	Buckhorn Processing Co (Lower South Fork Dam)	Buckhorn Processing Co (Upper South Fork Dam)
09	61	83			64	65	99	29

A - w/s at or above ug, in zone.
B - w/s below but allowed to exceed ug, in zone.
C - water/slurry at or above outside zone.
D - water/slurry not allow to reach ug.

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Permit Permit MisHa Risk Site Coal Scam (Outcrop Barrier) Head MisHa Risk Site Number Classification Status Type Coal Scam (Outcrop Barrier) Head MisHa Risk Site No underground works associated with pool or pool perimeter. Presh No underground works associated with pool or pool perimeter. Proposed Presh No underground works associated with pool or pool perimeter. Presh No underground works associated with pool or pool perimeter. Presh Presh Hazard #4 = (V=400; H=0) VH = 595 Presh No underground works associated with pool or pool perimeter. Presh Hazard #4 = (V=-70; H=135) VH = 168** Presh Hazard #4 = (V=-70; H=135) VH = 168** Presh Hazard #4 = (V=-70; H=135) VH = 168** Presh Hazard #4 = (V=-70; H=135) VH = 168** Presh Presh Hazard #4 = (V=-70; H=135) VH = 168** Presh Presh Hazard #4 = (V=-70; H=135) VH = 168** Presh Pres											1
Permit MSHA Number Classification Siatus Type Coal Scam (Outcrop Barrier) Head					OSM Site &		1440				
Number MSHA Number Caasification Status Type Coal Scam (Outcrop Barrier) Head	Permittee		Permit		MSHA Risk	Site				Frevious Braekthronete	
Ecompany 833-8002 KY07-07016-05 IN Slury No underground works associated with pool or ment) Slury No underground works associated with pool or pool perimeter. Slury No underground works associated with pool or ment) Slury	(Impoundment Name)	ıme)	Number			Status	Type		Site Conditions	Di cakun ougus	
Slurry No underground works associated with pool or pool perimeter. No underground works associated with pool or pool perimeter. Slurry No underground works associated with pool or pool perimeter. Slurry No underground works associated with pool or pool perimeter. Slurry Hazard #4 = (V=400; H=0) VH = 595	Kentucky Processing Company	ng Company	833-8002	KY07-07016-05		Z	Fresh	h pool or	nactive since 1994.	No	
Slurry No underground works associated with pool or pool perimeter. No underground works associated with pool or pool perimeter. No underground works associated with pool or pool perimeter.	(Emilianii Folia)		. 1		•		Water		mpounding water.		
Solution Solution	Kentucky Processing Company	ng Company	833-8002	KY07-07016-07		Z	Slurry		nactive since 1994.	No	
Slury No underground works associated with pool or pool perimeter. Pool perimeter.	(Calines Pond)				•.				mpounding water.		
pany Inc 866-9001 KY07-07095-01 A - A Slurry Hazard #4 = (V=400, H=0) VH = 595' pany Inc 866-5036 KY07-07115-01	Kentucky Processing Company	ng Company	833-9002	KY07-07016-09		Z	Slurry	_	nactive since 1994. Seep	No	_
pany Inc 866-9001 KY07-07095-01 A - Slurry Hazard #4 = (V=400, H=0) VH = 593° pany Inc 866-5036 KY07-07115-01 IN Fresh Hazard #4 = (V=-70, H=135) VH = 168° ment) 898-8012 KY06-00226-02 A Slurry No underground works associated with pool or pool perimeter. (Three 898-9126 KY06-00004-01 IN Slurry No underground works associated with pool or pool perimeter. 898-8128 KY06-00066-05 A Slurry Billing in approved pool perimeter. 9 897-0395 KY07-07097-01 A Fresh Presh Presh No underground works associated with pool or Water pool perimeter. 9 897-0395 KY07-07118-01 A Fresh Presh Pre	(ruckeu impoundment)	ment)							elow embankment. Scarp		
pany Inc 866-9001 KY07-07095-01 A- Slurry Hazard #4 = (V=400', H=0') VH = 595' pany Inc 866-5036 KY07-07115-01 IN Fresh pany Inc Fresh Pazard #4 = (V=-70', H=135) VH = 168' ment) 898-8012 KY06-00226-02 A Slurry pool perimeter. (Three 898-9126 KY06-00004-01 IN Slurry pool perimeter. (Slurry pool perimeter. A Slurry pool perimeter. (Slurry pool perimeter. A Slurry pool perimeter. (Three 898-8128 KY06-00066-05 A (Slurry pool perimeter. A Slurry pool perimeter. (Three 897-0395 KY07-07097-01 A (Three 897-0395 KY07-07118-01 A (Three Refresh pool perimeter. Pool perimeter.							4	0	n downstream face.		-
Presh Hazard #4 = (V=400, H=0) VH = 595								<u>a</u>	rincipal spillway pipe		
Presh Hazard #4 = (V=400, H=0) VH = 595									locked at outlet end.		
Presh Hazard #4 = (V=-70', H=135) VH = 1.68"	Shamrock Coal Company Inc (Adams Fork Sturry Imn)	ompany Inc	866-9001		A -	A		·	Active, initial stage. Seep on		
Hazard #4 = (V=-70', H=135) VH = 168"	Shamrock Coal C	dimension Inc	2002 220	17,707,02115,01			,		ght side. No problem		-
S98-8012 KY06-00226-02 A Slurry No underground works associated with pool or pool perimeter.	(Roark Branch Dam)	um)	. 0505-000	N10/-0/113-01		<u> </u>	Fresh Water		Active, only activity is water drawdown	No	
Three 898-9126 KY06-00004-01 The Slurry No underground works associated with pool or pool perimeter.	Lodestar Energy, Inc	inc	898-8012	KY06-00226-02			Clumen				
(Three 898-9126 KY06-00004-01 IN Slurry No underground works associated with pool or pool perimeter. 898-8128 KY06-00066-05 A Slurry Elkhorn #1 = (V=0', H=0') within approved pool Millard = (V=-110', H=200') VH=255' 897-0395 KY07-07097-01 A Fresh Presh No underground works associated with pool or Water pool perimeter. 897-0395 KY07-07118-01 A Fresh Presh No underground works associated with pool or Water pool perimeter.	(Chapperal Impoundment)	ndment)		70-07700 00 131	•		Simily		Active, also used by Pikeville to dispose Water Plant waste.	No V	
898-8128 KY06-00066-05 A Slurry pool pool Millard = (V=0', H=0') within approved pool Millard = (V=110', H=200') VH=255' 897-0395 KY07-07097-01 A Fresh Presh Pool perimeter. 897-0395 KY07-07118-01 A Fresh Presh Pool perimeter. Water Pool perimeter. Water Pool perimeter. Water Pool perimeter. Water Pool perimeter.	AEP Ky Coal, LLC		898-9126	KY06-00004-01					nactive since 1003 Site	Vec early 1070s	
898-8128 KY06-00066-05 A Slurry pool pool Elkhorn #1 = (V=0', H=0') within approved pool 897-0395 KY07-07097-01 A Fresh Presh Prool perimeter. 897-0395 KY07-07118-01 A Fresh Presh Prool perimeter. Water Pool perimeter. Water Pool perimeter. Water Pool perimeter. Water Pool perimeter.	Mile Impoundment)					-			eing reclaimed as part of	per MSHA.	
S98-8128 KY06-00066-05 A Slurry Elkhorn #1 = (V=0', H=0') within approved pool Millard = (V=-110', H=200') VH=255' S97-0395 KY07-07097-01 A Fresh No underground works associated with pool or Water pool perimeter. A Fresh No underground works associated with pool or Water pool perimeter. Water pool perimeter. Water pool perimeter. Water pool perimeter. Water Presh No underground works associated with pool or Water Presh No underground works associated with pool or Water Presh Presh No underground works associated with pool or Water Presh Pre								ns	urface coal mining		
Pool Millard = (V=-110', H=200') VH=255'	AEP Ky Coal, LLC		898-8128	KY06-00066-05				T	ctive, impounding water	ON	
Millard = (V=-110', H=200') VH=255'	(Hopkins Fork Imp)								0	2	
S97-0395 KY07-07097-01 A Fresh No underground works associated with pool or Water Prophysical September Prophysical Septembe								Millard = (V=-110', H=200') VH=255'			
897-0395 KY07-07118-01 A Fresh No underground works associated with pool or Water pool perimeter.	Lesne Resources Inc (Rowdy Branch Dam)	nc mm)	897-0395	KY07-07097-01					ctive, impounding water	No	
pool perimeter.	Leslie Resources Inc	ວເ	897-0395	KY07-07118-01			T	No underground works associated with pool or A		No	
	(Cockrell Dam)							•			

Site Status: A - Active

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RM - Remined

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	من رور شده	•		OSM Site &					Drawious
	Permittee	Permit		MSHA Risk	Site				Breakthroughs
	_	Number		Classification	Status	Type	Coal Seam (Outerop Barrier) Head	Site Conditions	(Date)
78		867-8048	KY06-00244-01		Y V	Slurry	No underground works associated with pool or	Active, impounding water	No
	-						pool perimeter.	-	
79	-	497-0122	KY07-07089-01		A	Fresh	No underground works associated with pool or	Active, impounding water	No
	_		·			Water	pool perimeter.		
80	_	497-0122	KY07-07089-02		Ą	Fresh	No underground works associated with pool or Active, impounding water	Active, impounding water	No
	(Wiley Miller Dam)					Water	pool perimeter.	•	
81		897-8034	KY07-07103-02		A	Slurry	=-130', H=0')	Active, not impounding	No
	_							water.	
82		860-0003	KY07-07150-01		SN	Fresh	NA	Not Started	
	_					Water			
83		860-0003	KY07-07150-02		SN	Slurry	NA NA	Not Started	
	_								
84		860-9005	KY07-07149-01		Z.	Slurry	No underground works associated with pool or	Inactive since 1999, No	No
							pool perimeter.	activity.	
82	-	880-0003	KY06-00143-02		A	Fresh	No underground works associated with pool or	Active, impounding water	No
						Water	pool perimeter.		
86	<u> </u>	880-8002	KY06-00199-01		A	Fresh	d works associated with pool or	Active, used for prep plant	No
	(Grassy Gap Impoundment)					Water	pool perimeter.	water,	
87	Motts Branch Coal Inc	860-8011	KY07-07005-08		Z	Slurry	Elkhorn #3 = $(V=-32, H=0)$ VH=179'	Inactive since 1995.	
	(Big Branch Impoundment)						Elkhom $#2 = (V=-82', H=0') VH=279'$		
		-					Elkhorn #1 = No Mining		
88	Addington Mining, Inc	813-8010	KY07-07071-01		A	Fresh	Underground works above dam and crest	Active, impounding water	No
	(Sediment Pond 002)					Water			
89		813-8010	KY07-07071-02		A	Slurry	Underground works above dam and crest	Active, impounding water	No
	(Slurry Impoundment 401)						elevation.		-
06		813-8011	KY07-07022-05		Z	Slurry	No underground works associated with pool or	Inactive since 1997.	No
	(Fugate Fork Slurry).						pool perimeter.	Impounding water	
9		860-9004	KY07-07113-03		A	Slurry	Elkhorn #3 = (V=0', H=0') Within approved 4	Active, new spillway	No
	(King Branch Impoundment)							constructed	
	_						Elkhorn #2 = No Mining		
92	BDCC Holding Co Inc. (Guthrie No. 4 Dam)	897-5048	KY07-00028-04		Ą		und works above dam and crest	Active, impounding water	No
	Commission of Damis					water	elevation.		

OSM Site Classification:

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		sqano.	0								ŀ														
	Previous	Breakthroughs	(Date)	No No		No No		N _o	S. S.	2	N _O		No	No		No	No		No	% N		No		No	No
			Site Conditions	Inactive since 1998.	Impounding water.	Active, impounding water		Inactive since 1999.	Inactive since 1996	Impounding water.	Inactive since 1984. Full of	sediment.	Inactive since 1984. Full of sediment	Active, full but not	abandoned	Inactive since 1999.	Inactive since 2001.	Remined slurry in 2000.	Inactive since 1998.	Inactive since 1995. Due for No	abandonment in 2002	Inactive since 1995. Due for No	abandonment in 2002	Active, impounding water	Active, impounding water
			Coal Seam (Outcrop Barrier) Head	Underground works above dam and crest	elevation.	#9 = (V=-158', H=0') VH=?		#9 = (V=-136', H=0') VH =?	#11 = (V=-209', H=0') VH=?		#11 = (V=-597', H=0') VH=?		#11 = (V=-597, H=0) VH=?	#11 = (V=-597; H=0') VH=?		#11 = (V=-597, H=0) VH=?	#9 = (V=-100', H=0') VH=131'		#11 = (V=-230', H=0') VH=?	#11 = (V=-250', H=0') VH=?		#11 = $(V=-250', H=0') VH=?$		#11 = (V=-120', H=0') VH=?	#11 = (V=-204', H=0') VH=216'
5	- A-18.		Type	Slurry		Fresh	Water	Slurry	Fresh	Water	Fresh	Water	Slurry	Fresh	Water	Slurry	Slurry		Slurry	Slurry		Slurry		Fresh Water	
		Site	Status	Z		Ą		<u>z</u>	Z		<u>Z</u>		Z	. V		Z	Z		Z	Z		Z		Ą	A
	OSM Site &	MSHA Risk	Classification			L/I/1/F	(F) (F) (F)	L/I/I/F	L/I/5/F		L/I/5/F		L/I/5/F	L/I/5/F		L/I/5/F	L/I/1/F		L/I/1/F	L/I/1/F		L/I/1/F		L/I/1/F	L/I/1/F
			MSHA Number	KY07-07052-05		KY10-08021-01	00 10000 017171	K.Y.10-08021-02	KY10-08024-02	·	KY10-08020-01		KY10-08020-04	KY10-08020-07		KY10-08020-06	KY10-08038-02		KY10-08017-01	KY10-08017-02		KY10-08017-03		KY10-08017-05	KY10-08035-01
		Fermit	Number	8708-978		713-5000	717 5000	/13-5000	713-5001		713-5002		713-5002	713-5002		713-5002	913-5003		913-5011	913-5011	-	913-5011		913-5011	913-5011
	Parmittae		(Impoundment Name)	Chas Coantheid Bandy Company Inc	(Bloss Branch Impoundment)	Island Creek Coal Company Ohio #11 Freshwater)	Island Creek Coal Commons	(Ohio #11 Slurry)	any	(Hamilton 2 Freshwater)	any			any		ımpany		(rich riam 2 Caudill 2 Sturry)	reabody Coal Company (Camp #11 Slurry IV)	any		104 Peabody Coal Company 5			106 Peabody Coal Company 9 (Camp 9 Prep Freshwater)
			03	3.		94	95		96		97	_		66	00	3	101	403	102	103	-	104	l C	co Co	106

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OSM Site & Site MSHA Risk Site Classification Status		MSHA Number
Slurry	A	Y
Slurry	L/I/JF A	A
Slurry	L/I/I/F A S	A
Fresh	Z	
Water	*	X
Slurry	N.	
Fresh Water	L/II/4/E A Fi	A
Slurry	AB	
Fresh Water	A	1
Fresh Water	RC Fi	
Fresh Water	A Fr	
Slurry	IS N	
Shurry	IS Z	
Slurry	IIS SN	

OSM Site Classification: